

SERVICE MANUAL

STEREO AV RECEIVER

SPECIFICATIONS

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

AM tuner section

Tuning range	530 kHz to 1710 kHz (10 kHz step), 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

Amplifier section

Power output	[Stereo Mode] Front 170 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion [Dolby Digital Surround or Dolby Pro Logic Mode] Front 120 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion Rear (Surround) 120 watts per channel, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion Center 120 watts, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion 0.15 % (85 W, 1 kHz, 8 ohms, Front)
Total harmonic distortion	
Inputs	AUDIO IN PHONO: 2.5 mV, adjustable (47 kohms) CD, VIDEO 1/DVD/MD, VIDEO 2/LD/TV, VIDEO 3: 300 mV, adjustable (47 kohms) TAPE MONITOR: 300 mV, adjustable (47 kohms) AUX: 230 mV, adjustable (47 kohms) DIGITAL IN COAXIAL (VIDEO 2): OPTICAL (VIDEO 1): OPTICAL (VIDEO 3): OPTICAL (CD): accept linear PCM (32 kHz, 44.1 kHz and 48 kHz) signals and bit stream of Dolby Digital and DTS Surround VIDEO IN: 1 Vp-p (75 ohms)


Outputs

AUDIO OUT (REC OUT): 250 mV (1 kohm)
VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
SUPER WOOFER: 5.0 V
FRONT SPEAKERS IMP: 8 Ω /4 Ω
selectable (front speakers A and B):
with the SPEAKER IMPEDANCE SELECTOR set to 4 Ω , accepts speakers of 4 ohms.
with the SPEAKER IMPEDANCE SELECTOR set to 8 Ω , accepts speakers of 8 ohms or more.
SURROUND SPEAKERS IMP: 8 Ω
(surround speakers): accepts speakers of 8 ohms or more
CENTER SPEAKER IMP: 8 Ω /4 Ω
selectable
with the SPEAKER IMPEDANCE SELECTOR set to 4 Ω , accepts speaker of 4 ohms.
with the SPEAKER IMPEDANCE SELECTOR set to 8 Ω , accepts speaker of 8 ohms or more.
PHONES (stereo jack): accepts headphones of 32 ohms or more
-20 dB

Muting

General

Power requirements	120 V AC, 60 Hz
Power consumption	230 W
Dimensions (W \times H \times D)	430 \times 155 \times 385 mm (17 \times 6 1/8 \times 15 1/4 in.)
Weight	12 kg (26 lb 7 oz.)

- Design and specifications are subject to change without notice.
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ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-AR1-903-010		IB,U(ESF)M
2	87-006-225-010		AM LOOP ANT NC2
3	87-043-115-010		ANT,FEEDER FM
4	88-AR1-654-010		RC UNIT,RC-8AR01

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC	87-AR4-687-040	C-IC, LC74763M-9670		87-A40-002-080	ZENER, MTZJ5.1C		
	87-017-915-080	IC, BU4094BCF		87-A40-115-060	DIODE, RS603M		
	87-A20-870-010	IC, GP1F37R		87-A40-469-080	C-DIODE, HSM2838CTR		
	87-017-888-080	IC, NJM4558MD		87-A40-004-080	ZENER, MTZJ16A		
	8Z-AR1-633-010	C-IC, UPD780228GF		87-A40-335-080	ZENER, MTZJ11C T-72		
	87-070-083-010	IC, GP1U281X		87-A40-224-010	DIODE, GBU8D		
	87-001-604-080	IC, TC74HCU04F		87-070-274-080	DIODE, 1N4003 SEM		
	87-A20-824-010	C-IC, CS4226		87-A40-435-080	ZENER, MTZJ30D		
	87-A21-257-040	C-IC, SN74LVC574A		87-A40-347-080	ZENER, MTZJ2.2B		
	87-A21-227-080	IC, LH28F400BVE-TL85		87-A40-646-010	DIODE, FMB-G16L		
	87-A21-230-080	IC, CS4926		87-A40-488-080	DIODE, 1SS244		
	87-A20-736-010	IC, BA033ST		87-017-931-080	ZENER, MTZJ5.6B		
	87-020-903-010	IC, NJM7805FA		87-A40-438-080	ZENER, MTZJ4.7A		
	87-A20-715-010	IC, M62439SP		87-A40-234-080	ZENER, MTZJ5.6A		
	87-017-022-080	IC, NJM2068M-D(T1)		87-A40-291-080	DIODE, 1N4148 (CPT)		
	87-020-784-080	IC, TC4053BF		MAIN C.B			
	87-A21-018-040	C-IC, M65849BFP631D		C101	87-010-235-080	CAP, E 470-16 SME	
	87-017-726-080	IC, BU4052 BCF		C102	87-010-235-080	CAP, E 470-16 SME	
	87-A21-202-040	C-IC, M62445AFP		C103	87-010-384-080	CAP, ELECT 100-25V	
	87-A20-056-010	IC, BA3880S		C104	87-016-128-080	CAP, E 22-25 105	
	87-A20-437-010	C-IC, M62431FP		C105	87-010-247-080	CAP, ELECT 100-50V	
	87-070-127-110	IC, LC72131 D		C106	87-010-384-080	CAP, ELECT 100-25V	
	87-A20-820-010	IC, BA7625		C107	87-010-263-080	CAP, ELECT 100-10V	
	87-017-917-080	IC, BU4066BCF		C108	87-012-140-080	CAP 470P	
TRANSISTOR	87-A30-197-080	TR, KTA1267GR		C109	87-012-368-080	C-CAP, S 0.1-50 F	
	87-026-245-080	TR, DTC114ES		C110	87-012-368-080	C-CAP, S 0.1-50 F	
	87-A30-198-080	TR, KTC3199GR		C111	87-012-368-080	C-CAP, S 0.1-50 F	
	87-A30-073-080	C-TR, RT1N 141C		C112	87-012-368-080	C-CAP, S 0.1-50 F	
	87-A30-071-080	C-TR, RT1N 144C		C113	87-016-658-090	CAP, E 4700-35 SMG	
	89-110-372-080	TR, 2SA1037(140MHZ 200MW)		C114	87-016-658-090	CAP, E 4700-35 SMG	
	89-213-750-010	TR, 2SB1375 (25W)		C115	87-012-368-080	C-CAP, S 0.1-50 F	
	87-A30-083-080	TR, CSD1489B		C116	87-012-368-080	C-CAP, S 0.1-50 F	
	87-A30-085-040	C-TR, CSA1362GR		C117	87-012-368-080	C-CAP, S 0.1-50 F	
	87-A30-075-080	C-TR, 2SA1235F		C118	87-012-368-080	C-CAP, S 0.1-50 F	
	89-112-965-080	TR, 2SA1296 (0.75W)		C119	87-A11-316-090	CAP, E 8200-85	
	87-A30-076-080	C-TR, 2SC3052F		C120	87-A11-316-090	CAP, E 8200-85	
	87-026-610-080	TR, KTC3198GR		C121	87-010-260-080	CAP, ELECT 47-25V	
	89-213-702-010	TR, 2SB1370 (1.8W)		C122	87-010-403-080	CAP, ELECT 3.3-50V	
	87-A30-072-080	C-TR, RT1P 144C		C123	87-010-384-080	CAP, ELECT 100-25V	
	87-A30-087-080	C-FET, 2SK2158		C124	87-010-384-080	CAP, ELECT 100-25V	
	87-A30-074-080	C-TR, RT1P 141C		C125	87-A10-417-080	CAP, E 47-63 M SME	
	87-026-263-080	C-TR, RN1410		C126	87-010-263-080	CAP, ELECT 100-10V	
	87-026-609-080	TR, KTA1266GR		C127	87-010-197-080	CAP, CHIP 0.01 DM	
	87-A30-257-080	C-TR, 2SD1306E		C131	87-010-544-080	CAP, ELECT 0.1-50V	
	87-A30-107-070	C-TR, CMBT5401		C133	87-010-404-080	CAP, ELECT 4.7-50V	
	87-026-214-080	TR, DTA114YS (0.3W)		C135	87-012-368-080	C-CAP, S 0.1-50 F	
	87-A30-190-080	TR, CC5551		C136	87-012-368-080	C-CAP, S 0.1-50 F	
	87-A30-097-010	TR, FN 1016		C143	87-A10-712-080	C-CAP, S 0.22-50 Z F	
	87-A30-098-010	TR, FP 1016		C144	87-A10-712-080	C-CAP, S 0.22-50 Z F	
	87-A30-106-070	C-TR, CMBT5551		C149	87-010-154-080	CAP CHIP 10P	
	87-A30-162-010	FET, 2SK2937		C150	87-010-154-080	CAP CHIP 10P	
	87-026-236-080	TR, DTC124E, K		C153	87-010-401-080	CAP, ELECT 1-50V	
	87-026-232-080	TR, DTA144WK		C154	87-010-401-080	CAP, ELECT 1-50V	
	87-A30-196-080	TR, 2SC4115SRS		C155	87-010-196-080	CHIP CAPACITOR, 0.1-25	
	89-327-143-080	TR, 2SC2714 (0.1W)		C156	87-010-196-080	CHIP CAPACITOR, 0.1-25	
				C157	87-010-408-080	CAP, ELECT 47-50V	
DIODE	87-020-465-080	DIODE, 1SS133 (110MA)		C158	87-010-248-080	CAP, ELECT 220-10V	
	87-A40-345-080	ZENER, MTZJ10C		C159	87-010-154-080	CAP CHIP 10P	
	87-A40-344-080	ZENER, MTZJ6.2C		C169	87-010-154-080	CAP CHIP 10P	
	87-A40-468-080	C-DIODE, HSM2836CTR		C170	87-010-154-080	CAP CHIP 10P	
	87-070-136-080	ZENER, MTZJ5.1B		C171	87-010-196-080	CHIP CAPACITOR, 0.1-25	
	87-027-686-080	ZENER, HZ-12A1		C172	87-010-154-080	CAP CHIP 10P	
	87-A40-235-080	ZENER, MTZJ9.1C		C173	87-010-405-080	CAP, ELECT 10-50V	
				C174	87-010-401-080	CAP, ELECT 1-50V	
				C175	87-010-196-080	CHIP CAPACITOR, 0.1-25	
				C203	87-010-178-080	CHIP CAP 1000P	
				C204	87-010-178-080	CHIP CAP 1000P	
				C205	87-010-405-080	CAP, ELECT 10-50V	

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C206	87-010-405-080		CAP, ELECT 10-50V	C409	87-A10-516-080		C-CAP,S 100P-200 J CH
C208	87-016-299-080		CAP,E 10-100 SME	C411	87-010-805-080		CAP, S 1-16
C209	87-010-406-080		CAP, ELECT 22-50	C412	87-010-402-080		CAP, ELECT 2.2-50V
C210	87-010-406-080		CAP, ELECT 22-50	C413	87-010-196-080		CHIP CAPACITOR,0.1-25
C211	87-010-322-080		C-CAP,S 100P-50 CH	C414	87-010-178-080		CHIP CAP 1000P
C212	87-010-322-080		C-CAP,S 100P-50 CH	C416	87-016-299-080		CAP,E 10-100 SME
C215	87-A10-897-080		CAP,E 100-25 BP SME	C417	87-A10-946-080		C-CAP,S 220P-100 J CH
C216	87-A10-897-080		CAP,E 100-25 BP SME	C430	87-A10-354-080		C-CAP,S 0.047-50 K B
C217	87-A10-516-080		C-CAP,S 100P-200 J CH	C485	87-010-186-080		CAP,CHIP 4700P
C218	87-A10-516-080		C-CAP,S 100P-200 J CH	C491	87-012-368-080		C-CAP,S 0.1-50 F
C221	87-010-805-080		CAP, S 1-16	C492	87-012-368-080		C-CAP,S 0.1-50 F
C222	87-010-805-080		CAP, S 1-16	C493	87-010-190-080		S CHIP F 0.01
C223	87-010-402-080		CAP, ELECT 2.2-50V	C501	87-010-404-080		CAP, ELECT 4.7-50V
C224	87-010-402-080		CAP, ELECT 2.2-50V	C502	87-010-404-080		CAP, ELECT 4.7-50V
C225	87-010-196-080		CHIP CAPACITOR,0.1-25	C503	87-012-157-080		C-CAP,S 330P-50 CH
C227	87-010-178-080		CHIP CAP 1000P	C504	87-012-157-080		C-CAP,S 330P-50 CH
C228	87-010-178-080		CHIP CAP 1000P	C511	87-010-404-080		CAP, ELECT 4.7-50V
C230	87-A10-354-080		C-CAP,S 0.047-50 K B	C512	87-010-404-080		CAP, ELECT 4.7-50V
C231	87-A10-354-080		C-CAP,S 0.047-50 K B	C513	87-010-260-080		CAP, ELECT 47-25V
C232	87-A10-946-080		C-CAP,S 220P-100 J CH	C514	87-010-260-080		CAP, ELECT 47-25V
C285	87-010-186-080		CAP,CHIP 4700P	C515	87-010-370-080		CAP,E 330-6.3 SME
C287	87-010-190-080		S CHIP F 0.01	C516	87-010-370-080		CAP,E 330-6.3 SME
C288	87-010-190-080		S CHIP F 0.01	C517	87-010-196-080		CHIP CAPACITOR,0.1-25
C289	87-010-190-080		S CHIP F 0.01	C518	87-010-196-080		CHIP CAPACITOR,0.1-25
C290	87-010-190-080		S CHIP F 0.01	C519	87-010-196-080		CHIP CAPACITOR,0.1-25
C291	87-012-368-080		C-CAP,S 0.1-50 F	C520	87-010-196-080		CHIP CAPACITOR,0.1-25
C292	87-012-368-080		C-CAP,S 0.1-50 F	C531	87-010-213-080		C-CAP,S 0.015-50 B
C293	87-012-368-080		C-CAP,S 0.1-50 F	C532	87-010-992-080		C-CAP,S 0.047-25 B
C294	87-012-368-080		C-CAP,S 0.1-50 F	C533	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C295	87-012-368-080		C-CAP,S 0.1-50 F	C535	87-010-404-080		CAP, ELECT 4.7-50V
C296	87-012-368-080		C-CAP,S 0.1-50 F	C536	87-010-404-080		CAP, ELECT 4.7-50V
C297	87-012-368-080		C-CAP,S 0.1-50 F	C539	87-010-401-080		CAP, ELECT 1-50V
C298	87-012-368-080		C-CAP,S 0.1-50 F	C540	87-010-401-080		CAP, ELECT 1-50V
C303	87-010-179-080		CAP,CHIP S B1200P	C541	87-010-185-080		C-CAP,S 3900P-50 B
C304	87-010-179-080		CAP,CHIP S B1200P	C542	87-010-185-080		C-CAP,S 3900P-50 B
C305	87-010-405-080		CAP, ELECT 10-50V	C547	87-010-404-080		CAP, ELECT 4.7-50V
C306	87-010-405-080		CAP, ELECT 10-50V	C548	87-010-404-080		CAP, ELECT 4.7-50V
C308	87-016-299-080		CAP,E 10-100 SME	C549	87-016-081-080		C-CAP,S 0.1-16 RK
C309	87-010-382-080		CAP, ELECT 22-25V	C550	87-016-081-080		C-CAP,S 0.1-16 RK
C310	87-010-382-080		CAP, ELECT 22-25V	C554	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-322-080		C-CAP,S 100P-50 CH	C555	87-010-405-080		CAP, ELECT 10-50V
C312	87-010-322-080		C-CAP,S 100P-50 CH	C556	87-010-248-080		CAP, ELECT 220-10V
C315	87-A10-897-080		CAP,E 100-25 BP SME	C557	87-010-405-080		CAP, ELECT 10-50V
C316	87-A10-897-080		CAP,E 100-25 BP SME	C559	87-010-183-080		C-CAP,S 2700P-50 B
C317	87-A10-516-080		C-CAP,S 100P-200 J CH	C561	87-012-140-080		CAP 470P
C318	87-A10-516-080		C-CAP,S 100P-200 J CH	C562	87-012-140-080		CAP 470P
C320	87-A10-946-080		C-CAP,S 220P-100 J CH	C565	87-010-404-080		CAP, ELECT 4.7-50V
C321	87-010-805-080		CAP, S 1-16	C566	87-010-404-080		CAP, ELECT 4.7-50V
C322	87-010-805-080		CAP, S 1-16	C601	87-010-378-080		CAP, ELECT 10-16V
C323	87-010-402-080		CAP, ELECT 2.2-50V	C602	87-010-378-080		CAP, ELECT 10-16V
C324	87-010-402-080		CAP, ELECT 2.2-50V	C603	87-012-156-080		C-CAP,S 220P-50 CH
C325	87-010-196-080		CHIP CAPACITOR,0.1-25	C604	87-012-156-080		C-CAP,S 220P-50 CH
C327	87-010-178-080		CHIP CAP 1000P	C605	87-010-405-080		CAP, ELECT 10-50V
C328	87-010-178-080		CHIP CAP 1000P	C606	87-010-405-080		CAP, ELECT 10-50V
C330	87-A10-354-080		C-CAP,S 0.047-50 K B	C607	87-012-140-080		CAP 470P
C331	87-A10-354-080		C-CAP,S 0.047-50 K B	C608	87-012-140-080		CAP 470P
C334	87-A10-918-080		CAP,E 100-16 SMG	C609	87-010-188-080		CAP,CHIP 6800P
C335	87-A10-918-080		CAP,E 100-16 SMG	C610	87-010-188-080		CAP,CHIP 6800P
C385	87-010-186-080		CAP,CHIP 4700P	C611	87-010-197-080		CAP, CHIP 0.01 DM
C391	87-012-368-080		C-CAP,S 0.1-50 F	C612	87-010-195-080		C-CAP,S 0.068-25 F
C392	87-012-368-080		C-CAP,S 0.1-50 F	C613	87-010-195-080		C-CAP,S 0.068-25 F
C393	87-012-368-080		C-CAP,S 0.1-50 F	C614	87-010-197-080		CAP, CHIP 0.01 DM
C394	87-012-368-080		C-CAP,S 0.1-50 F	C615	87-010-404-080		CAP, ELECT 4.7-50V
C395	87-010-190-080		S CHIP F 0.01	C616	87-010-404-080		CAP, ELECT 4.7-50V
C396	87-010-190-080		S CHIP F 0.01	C617	87-010-404-080		CAP, ELECT 4.7-50V
C402	87-010-181-080		CAP,CHIP S 1800P	C618	87-010-404-080		CAP, ELECT 4.7-50V
C403	87-010-405-080		CAP, ELECT 10-50V	C619	87-010-404-080		CAP, ELECT 4.7-50V
C405	87-010-408-080		CAP, ELECT 47-50V	C620	87-010-101-080		CAP, ELECT 220-16
C406	87-010-322-080		C-CAP,S 100P-50 CH	C621	87-010-260-080		CAP, ELECT 47-25V
C408	87-A10-897-080		CAP,E 100-25 BP SME	C745	87-012-368-080		C-CAP,S 0.1-50 F

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C746	87-012-368-080		C-CAP,S 0.1-50 F	R416	87-A00-418-010		RES,M/F 0.15-3W J
C901	87-010-406-080		CAP, ELECT 22-50	R417	87-A00-418-010		RES,M/F 0.15-3W J
C902	87-010-406-080		CAP, ELECT 22-50	R424	87-A00-418-010		RES,M/F 0.15-3W J
C903	87-010-406-080		CAP, ELECT 22-50	R590	87-A00-418-010		RES,M/F 0.15-3W J
C904	87-010-406-080		CAP, ELECT 22-50	R611	87-A00-418-010		RES,M/F 0.15-3W J
C905	87-010-406-080		CAP, ELECT 22-50	R905	87-010-317-080		C-CAP,S 39P-50 CH
C906	87-010-260-080		CAP, ELECT 47-25V	RY101	87-A90-454-010		RELAY,12V DJ12D2-O(M)
C907	87-010-196-080		CHIP CAPACITOR,0.1-25	RY102	87-A90-454-010		RELAY,12V DJ12D2-O(M)
C908	87-010-387-080		CAP,E 470-25 SME	RY281	87-A90-143-010		RELAY,DG12D-OS(M)
C909	87-010-371-080		CAP, ELECT 470-6.3V	RY481	87-A90-143-010		RELAY,DG12D-OS(M)
C910	87-010-371-080		CAP, ELECT 470-6.3V	RY801	87-A90-143-010		RELAY,DG12D-OS(M)
C911	87-010-371-080		CAP, ELECT 470-6.3V	S101	86-SP8-611-010		SW,SL 1-1-2
C912	87-010-196-080		CHIP CAPACITOR,0.1-25	S291	87-A90-174-010		SW,PUSH 2-2-2
C913	87-010-196-080		CHIP CAPACITOR,0.1-25	S292	87-A90-174-010		SW,PUSH 2-2-2
C914	87-010-196-080		CHIP CAPACITOR,0.1-25	W3	8Z-AR2-606-010		CONN ASSY,9P VH
CN110	87-A60-621-010		CONN,4P V 2MM JMT	WH101	87-A90-510-010		HLDR,WIRE 2.5-9P
CN110	87-009-032-010		CONNECTOR,4P YEL				
CN501	87-A60-039-010		CONN,32P V 9604S-32C				
CN502	87-A60-052-010		CONN,18P V 9604S-18C	FRONT C.B			
CN503	87-A60-057-010		CONN,11P V 9604S-11C				
CN504	87-099-574-010		CONN,20P TUC-P20P-B1	C101	87-010-178-080		CHIP CAP 1000P
CN505	87-A60-189-010		CONN,16P V TUC-P16P-B1	C103	87-010-178-080		CHIP CAP 1000P
CN702	87-099-568-010		CONN,11P TUC-P11P-B1	C105	87-016-526-080		C-CAP,S 0.47-16 BK
CN950	87-099-667-010		CONN,8P TUC-P8P-B1	C107	87-016-526-080		C-CAP,S 0.47-16 BK
J201	87-A60-199-010		TERMINAL,SP 8P CJ-9034-07 V0	C108	87-016-526-080		C-CAP,S 0.47-16 BK
J301	87-A60-200-110		TERMINAL,SP 6P CJ-9033	C109	87-010-322-080		C-CAP,S 100P-50 CH
J501	87-099-609-010		JACK,PIN 4P KM EARTH	C110	87-010-322-080		C-CAP,S 100P-50 CH
J502	87-099-609-010		JACK,PIN 4P KM EARTH	C111	87-015-699-040		CAP,E 10-50 7L
J715	87-A60-244-010		JACK,PIN 1P BLK	C112	87-010-322-080		C-CAP,S 100P-50 CH
J901	87-099-911-010		JACK,PIN 3P YEL	C113	87-010-322-080		C-CAP,S 100P-50 CH
J902	87-099-912-010		JACK,PIN 3P YEL W/E	C114	87-010-322-080		C-CAP,S 100P-50 CH
J903	87-099-911-010		JACK,PIN 3P YEL	C115	87-010-322-080		C-CAP,S 100P-50 CH
J904	87-099-911-010		JACK,PIN 3P YEL	C116	87-015-699-040		CAP,E 10-50 7L
J905	87-099-911-010		JACK,PIN 3P YEL	C117	87-016-526-080		C-CAP,S 0.47-16 BK
L291	87-003-383-010		COIL,1UH-S	C118	87-010-498-040		CAP,E 10-16 GAS
L292	87-003-383-010		COIL,1UH-S	C120	87-015-694-040		E/CAP 0.47-50
L293	87-003-383-010		COIL,1UH-S	C121	87-016-526-080		C-CAP,S 0.47-16 BK
L294	87-003-383-010		COIL,1UH-S	C122	87-015-699-040		CAP,E 10-50 7L
L391	87-003-383-010		COIL,1UH-S	C123	87-010-196-080		CHIP CAPACITOR,0.1-25
L392	87-003-383-010		COIL,1UH-S	C124	87-015-699-040		CAP,E 10-50 7L
L491	87-003-383-010		COIL,1UH-S	C125	87-010-196-080		CHIP CAPACITOR,0.1-25
L901	87-003-152-080		COIL, 100UH	C126	87-A10-189-040		CAP,E 220-10
▲PR101	87-026-691-080		FUSE,10A 125V 251	C127	87-016-526-080		C-CAP,S 0.47-16 BK
▲PR104	87-026-691-080		FUSE,10A 125V 251	C129	87-010-196-080		CHIP CAPACITOR,0.1-25
▲PR107	87-026-691-080		FUSE,10A 125V 251	C130	87-010-198-080		CAP, CHIP 0.022
▲PR108	87-026-691-080		FUSE,10A 125V 251	C131	87-010-408-080		CAP, ELECT 47-50V
▲PR201	87-026-691-080		FUSE,10A 125V 251	C132	87-012-368-080		C-CAP,S 0.1-50 F
▲PR202	87-026-691-080		FUSE,10A 125V 251	C133	87-016-526-080		C-CAP,S 0.47-16 BK
▲PR301	87-026-691-080		FUSE,10A 125V 251	C134	87-010-196-080		CHIP CAPACITOR,0.1-25
▲PR302	87-026-691-080		FUSE,10A 125V 251	C136	87-016-526-080		C-CAP,S 0.47-16 BK
▲PR401	87-026-691-080		FUSE,10A 125V 251	C137	87-010-312-080		C-CAP,S 15P-50 CH
▲PR402	87-026-691-080		FUSE,10A 125V 251	C138	87-010-318-080		C-CAP,S 47P-50 CH
R109	87-029-060-080		RES,FUSE 33-1/4 W	C139	87-010-316-080		C-CAP,S 33P-50 CH
R143	87-A00-259-080		RES,M/F 0.33-1W J	C140	87-010-196-080		CHIP CAPACITOR,0.1-25
R176	87-A00-401-050		RES,M/F 390-1W J VTP	C141	87-012-156-080		C-CAP,S 220P-50 CH
R179	87-A00-402-050		RES,M/F 560-1W J VTP	C142	87-010-198-080		CAP, CHIP 0.022
R211	87-A00-418-010		RES,M/F 0.15-3W J	C143	87-012-156-080		C-CAP,S 220P-50 CH
R212	87-A00-418-010		RES,M/F 0.15-3W J	C144	87-010-178-080		CHIP CAP 1000P
R231	87-A00-418-010		RES,M/F 0.15-3W J	C145	87-012-157-080		C-CAP,S 330P-50 CH
R232	87-A00-418-010		RES,M/F 0.15-3W J	C146	87-012-157-080		C-CAP,S 330P-50 CH
R233	87-A00-418-010		RES,M/F 0.15-3W J	C147	87-012-157-080		C-CAP,S 330P-50 CH
R234	87-A00-418-010		RES,M/F 0.15-3W J	C148	87-012-157-080		C-CAP,S 330P-50 CH
R281	87-A00-126-080		RES M/F 220-1/WJ VIP	C149	87-012-157-080		C-CAP,S 330P-50 CH
R282	87-A00-126-080		RES M/F 220-1/WJ VIP	C150	87-012-157-080		C-CAP,S 330P-50 CH
R283	87-A00-126-080		RES M/F 220-1/WJ VIP	C153	87-012-368-080		C-CAP,S 0.1-50 F
R284	87-A00-126-080		RES M/F 220-1/WJ VIP	C154	87-012-368-080		C-CAP,S 0.1-50 F
R331	87-A00-418-010		RES,M/F 0.15-3W J	C155	87-012-157-080		C-CAP,S 330P-50 CH
R332	87-A00-418-010		RES,M/F 0.15-3W J	C156	87-015-699-040		CAP,E 10-50 7L
R333	87-A00-418-010		RES,M/F 0.15-3W J	C157	87-012-157-080		C-CAP,S 330P-50 CH
R334	87-A00-418-010		RES,M/F 0.15-3W J	C158	87-012-368-080		C-CAP,S 0.1-50 F

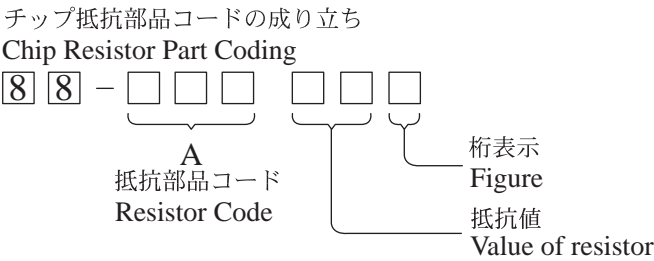
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C160	87-012-157-080	C-CAP,S	330P-50 CH	C717	87-012-286-080	CAP, U	0.01-25
C162	87-010-182-080	C-CAP,S	2200P-50 B	C719	87-012-286-080	CAP, U	0.01-25
C164	87-A10-189-040	CAP,E	220-10	C721	87-012-176-080	CAP	15P
C170	87-012-157-080	C-CAP,S	330P-50 CH	C722	87-012-176-080	CAP	15P
C171	87-012-157-080	C-CAP,S	330P-50 CH	C723	87-010-401-080	CAP, ELECT	1-50V
C181	87-010-322-080	C-CAP,S	100P-50 CH	C723	87-012-274-080	CHIP CAP,U	1000P-50B
C182	87-010-322-080	C-CAP,S	100P-50 CH	C725	87-012-274-080	CHIP CAP,U	1000P-50B
C183	87-010-322-080	C-CAP,S	100P-50 CH	C726	87-010-405-080	CAP, ELECT	10-50V
C184	87-010-322-080	C-CAP,S	100P-50 CH	C727	87-010-196-080	CHIP CAPACITOR,	0.1-25
C185	87-010-322-080	C-CAP,S	100P-50 CH	C728	87-010-248-080	CAP, ELECT	220-10V
C186	87-010-322-080	C-CAP,S	100P-50 CH	C755	87-012-286-080	CAP, U	0.01-25
C187	87-010-322-080	C-CAP,S	100P-50 CH	C756	87-012-286-080	CAP, U	0.01-25
C188	87-010-322-080	C-CAP,S	100P-50 CH	C757	87-012-188-080	C-CAP,U	47P-50 CH
C189	87-010-322-080	C-CAP,S	100P-50 CH	C758	87-012-167-080	C-CAP, U	5P-50 CH
C190	87-010-322-080	C-CAP,S	100P-50 CH	C761	87-010-196-080	CHIP CAPACITOR,	0.1-25
C240	87-016-526-080	C-CAP,S	0.47-16 BK	C763	87-010-829-080	CAP, U	0.047-16
C402	87-012-156-080	C-CAP,S	220P-50 CH	C764	87-012-337-080	C-CAP,U	56P-50 CH
C405	87-010-182-080	C-CAP,S	2200P-50 B	C765	87-012-286-080	CAP, U	0.01-25
C406	87-010-182-080	C-CAP,S	2200P-50 B	C766	87-012-286-080	CAP, U	0.01-25
C407	87-010-178-080	CHIP CAP	1000P	C769	87-010-260-080	CAP, ELECT	47-25V
C409	87-010-196-080	CHIP CAPACITOR,	0.1-25	C770	87-010-829-080	CAP, U	0.047-16
C411	87-010-322-080	C-CAP,S	100P-50 CH	C771	87-010-383-080	CAP, ELECT	33-25V
C412	87-010-178-080	CHIP CAP	1000P	C772	87-010-829-080	CAP, U	0.047-16
CN201	87-A60-053-010	CONN,17P	V 9604S-17C	C773	87-010-196-080	CHIP CAPACITOR,	0.1-25
CN202	87-A60-039-010	CONN,32P	V 9604S-32C	C774	87-010-263-080	CAP, ELECT	100-10V
CN203	87-A60-052-010	CONN,18P	V 9604S-18C	C775	87-010-404-080	CAP, ELECT	4.7-50V
D102	87-A40-496-040	LED,SLR-342MCT31	GRN	C776	87-012-286-080	CAP, U	0.01-25
D103	87-A40-496-040	LED,SLR-342MCT31	GRN	C777	87-010-400-080	CAP, ELECT	0.47-50V
D105	87-A40-496-040	LED,SLR-342MCT31	GRN	C778	87-010-401-080	CAP, ELECT	1-50V
D107	87-A40-496-040	LED,SLR-342MCT31	GRN	C779	87-010-401-080	CAP, ELECT	1-50V
D109	87-A40-496-040	LED,SLR-342MCT31	GRN	C780	87-010-196-080	CHIP CAPACITOR,	0.1-25
D111	87-A40-496-040	LED,SLR-342MCT31	GRN	C781	87-010-405-080	CAP, ELECT	10-50V
D113	87-A40-496-040	LED,SLR-342MCT31	GRN	C782	87-010-405-080	CAP, ELECT	10-50V
D115	87-A40-496-040	LED,SLR-342MCT31	GRN	C783	87-012-286-080	CAP, U	0.01-25
D117	87-A40-496-040	LED,SLR-342MCT31	GRN	C784	87-012-286-080	CAP, U	0.01-25
FL101	8Z-AR1-602-010	FL,BJ691	GK	C785	87-010-805-080	CAP, S	1-16
LED101	87-A40-317-080	LED,SLR-342VCT31	RED	C786	87-010-805-080	CAP, S	1-16
LED104	87-A40-317-080	LED,SLR-342VCT31	RED	C787	87-012-280-080	CAP, U	3300P-50
LED106	87-A40-317-080	LED,SLR-342VCT31	RED	C788	87-012-280-080	CAP, U	3300P-50
LED108	87-A40-317-080	LED,SLR-342VCT31	RED	C789	87-012-275-080	C-CAP,U	1200P-50 B
LED110	87-A40-317-080	LED,SLR-342VCT31	RED	C790	87-012-275-080	C-CAP,U	1200P-50 B
LED112	87-A40-317-080	LED,SLR-342VCT31	RED	C791	87-010-405-080	CAP, ELECT	10-50V
LED114	87-A40-317-080	LED,SLR-342VCT31	RED	C793	87-012-273-080	C-CAP,U	820P-50 B
LED116	87-A40-317-080	LED,SLR-342VCT31	RED	C794	87-010-406-080	CAP, ELECT	22-50
LED119	87-A40-317-080	LED,SLR-342VCT31	RED	C795	87-010-596-080	CAP, S	0.047-16
S101	87-A90-095-080	SW,TACT	EVQ11G04M	C796	87-010-403-080	CAP, ELECT	3.3-50V
S107	87-A90-095-080	SW,TACT	EVQ11G04M	C797	87-012-278-080	C-CAP,U	2200P-50 B
S108	87-A90-095-080	SW,TACT	EVQ11G04M	C798	87-012-278-080	C-CAP,U	2200P-50 B
S109	87-A90-095-080	SW,TACT	EVQ11G04M	C799	87-010-829-080	CAP, U	0.047-16
S110	87-A90-095-080	SW,TACT	EVQ11G04M	C812	87-012-286-080	CAP, U	0.01-25
S111	87-A90-095-080	SW,TACT	EVQ11G04M	C813	87-010-197-080	CAP, CHIP	0.01 DM
S112	87-A90-095-080	SW,TACT	EVQ11G04M	C814	87-012-286-080	CAP, U	0.01-25
S113	87-A90-095-080	SW,TACT	EVQ11G04M	C819	87-010-197-080	CAP, CHIP	0.01 DM
S114	87-A90-095-080	SW,TACT	EVQ11G04M	C820	87-010-260-080	CAP, ELECT	47-25V
S115	87-A90-095-080	SW,TACT	EVQ11G04M	C821	87-012-286-080	CAP, U	0.01-25
S116	87-A90-095-080	SW,TACT	EVQ11G04M	C822	87-012-286-080	CAP, U	0.01-25
SW101	87-A90-535-010	SW,RTRY	EC16B24304	C823	87-012-286-080	CAP, U	0.01-25
SW102	87-A90-950-010	SW,RTRY	EC12E12504	C828	87-010-196-080	CHIP CAPACITOR,	0.1-25
X101	87-A70-075-080	VIB,CER	4.19MHZ CRHF	C829	87-010-196-080	CHIP CAPACITOR,	0.1-25
				C959	87-010-196-080	CHIP CAPACITOR,	0.1-25
TUNER C.B				C960	87-010-196-080	CHIP CAPACITOR,	0.1-25
C701	87-010-260-080	CAP, ELECT	47-25V	C961	87-012-170-080	C-CAP,U	8P-50 CH
C702	87-010-404-080	CAP, ELECT	4.7-50V	CF801	87-008-261-010	FILTER, SFE10.7MA5-A	
C703	87-012-286-080	CAP, U	0.01-25	CF802	87-008-261-010	FILTER, SFE10.7MA5-A	
C704	87-012-286-080	CAP, U	0.01-25	CN601	87-099-028-010	CONN,11P	6216 H
C711	87-010-263-080	CAP, ELECT	100-10V	FFE801	A8-8ZA-190-030	8ZA-1 FEUNM	
C712	87-010-196-080	CHIP CAPACITOR,	0.1-25	J801	87-A60-657-010	TERMINAL,4P	HSP-154V5-02
C713	87-012-286-080	CAP, U	0.01-25	L771	87-A50-266-010	COIL,FM	DET-2N(TOK)
C714	87-012-286-080	CAP, U	0.01-25	L772	87-A90-733-010	FLTR,PCFAZH-450	(TOK)
				L781	87-005-847-080	COIL,2.2UH	(CECS)

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L791	87-A50-209-010		COIL,1POLE MPX(MIT)	C234	87-010-196-080		CHIP CAPACITOR,0.1-25
L792	87-A50-209-010		COIL,1POLE MPX(MIT)	C235	87-010-405-080		CAP, ELECT 10-50V
L832	87-005-847-080		COIL,2.2UH(CECS)	C238	87-012-156-080		C-CAP,S 220P-50 CH
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)	C239	87-010-405-080		CAP, ELECT 10-50V
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	C240	87-012-156-080		C-CAP,S 220P-50 CH
DIGITAL C.B				C242	87-010-196-080		CHIP CAPACITOR,0.1-25
C101	87-010-196-080		CHIP CAPACITOR,0.1-25	C243	87-010-196-080		CHIP CAPACITOR,0.1-25
C102	87-010-196-080		CHIP CAPACITOR,0.1-25	C245	87-010-178-080		CHIP CAP 1000P
C103	87-010-314-080		C-CAP,S 22P-50V	C246	87-010-405-080		CAP, ELECT 10-50V
C104	87-010-196-080		CHIP CAPACITOR,0.1-25	C247	87-012-156-080		C-CAP,S 220P-50 CH
C105	87-010-379-080		CAP, ELECT 22-16V	C248	87-010-178-080		CHIP CAP 1000P
C106	87-010-196-080		CHIP CAPACITOR,0.1-25	C249	87-010-405-080		CAP, ELECT 10-50V
C107	87-010-401-080		CAP, ELECT 1-50V	C250	87-012-156-080		C-CAP,S 220P-50 CH
C108	87-010-322-080		C-CAP,S 100P-50 CH	C251	87-010-405-080		CAP, ELECT 10-50V
C109	87-010-182-080		C-CAP,S 2200P-50 B	C252	87-010-196-080		CHIP CAPACITOR,0.1-25
C110	87-010-182-080		C-CAP,S 2200P-50 B	C253	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-182-080		C-CAP,S 2200P-50 B	C254	87-010-405-080		CAP, ELECT 10-50V
C112	87-010-384-080		CAP, ELECT 100-25V	C255	87-010-178-080		CHIP CAP 1000P
C113	87-010-196-080		CHIP CAPACITOR,0.1-25	C256	87-010-405-080		CAP, ELECT 10-50V
C114	87-010-263-080		CAP, ELECT 100-10V	C257	87-010-182-080		C-CAP,S 2200P-50 B
C115	87-010-196-080		CHIP CAPACITOR,0.1-25	C258	87-A10-201-080		C-CAP,S0.33-16 KB
C118	87-010-311-080		CAP 12P	C259	87-010-405-080		CAP, ELECT 10-50V
C119	87-010-311-080		CAP 12P	C260	87-010-405-080		CAP, ELECT 10-50V
C120	87-010-401-080		CAP, ELECT 1-50V	C261	87-010-405-080		CAP, ELECT 10-50V
C121	87-010-196-080		CHIP CAPACITOR,0.1-25	C262	87-010-405-080		CAP, ELECT 10-50V
C122	87-010-196-080		CHIP CAPACITOR,0.1-25	C263	87-010-405-080		CAP, ELECT 10-50V
C123	87-010-401-080		CAP, ELECT 1-50V	C264	87-010-169-080		C-CAP,S 180P-50 SL
C124	87-010-196-080		CHIP CAPACITOR,0.1-25	C265	87-010-196-080		CHIP CAPACITOR,0.1-25
C125	87-010-191-080		C-CAP,S 0.015-50 F	C267	87-010-405-080		CAP, ELECT 10-50V
C126	87-010-987-080		C-CAP,S 1500P-50 CH	C268	87-010-196-080		CHIP CAPACITOR,0.1-25
C127	87-010-196-080		CHIP CAPACITOR,0.1-25	C269	87-010-169-080		C-CAP,S 180P-50 SL
C128	87-010-401-080		CAP, ELECT 1-50V	C270	87-010-405-080		CAP, ELECT 10-50V
C129	87-010-384-080		CAP, ELECT 100-25V	C271	87-010-196-080		CHIP CAPACITOR,0.1-25
C130	87-010-196-080		CHIP CAPACITOR,0.1-25	C272	87-010-196-080		CHIP CAPACITOR,0.1-25
C131	87-010-263-080		CAP, ELECT 100-10V	C273	87-010-314-080		C-CAP,S 22P-50V
C132	87-010-196-080		CHIP CAPACITOR,0.1-25	C274	87-010-196-080		CHIP CAPACITOR,0.1-25
C133	87-010-263-080		CAP, ELECT 100-10V	C275	87-010-196-080		CHIP CAPACITOR,0.1-25
C134	87-010-196-080		CHIP CAPACITOR,0.1-25	C276	87-010-405-080		CAP, ELECT 10-50V
C135	87-010-196-080		CHIP CAPACITOR,0.1-25	C277	87-010-196-080		CHIP CAPACITOR,0.1-25
C136	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C278	87-010-196-080		CHIP CAPACITOR,0.1-25
C137	87-010-196-080		CHIP CAPACITOR,0.1-25	C279	87-010-196-080		CHIP CAPACITOR,0.1-25
C138	87-010-263-080		CAP, ELECT 100-10V	C280	87-010-314-080		C-CAP,S 22P-50V
C139	87-010-263-080		CAP, ELECT 100-10V	C281	87-010-401-080		CAP, ELECT 1-50V
C140	87-010-196-080		CHIP CAPACITOR,0.1-25	C282	87-010-405-080		CAP, ELECT 10-50V
C141	87-010-263-080		CAP, ELECT 100-10V	C283	87-010-405-080		CAP, ELECT 10-50V
C142	87-010-196-080		CHIP CAPACITOR,0.1-25	C301	87-012-393-080		C-CAP,S 0.22-16 R K
C143	87-010-196-080		CHIP CAPACITOR,0.1-25	C302	87-012-393-080		C-CAP,S 0.22-16 R K
C145	87-010-196-080		CHIP CAPACITOR,0.1-25	C303	87-010-196-080		CHIP CAPACITOR,0.1-25
C146	87-010-196-080		CHIP CAPACITOR,0.1-25	C304	87-012-393-080		C-CAP,S 0.22-16 R K
C147	87-010-263-080		CAP, ELECT 100-10V	C305	87-010-184-080		CHIP CAPACITOR 3300P(K)
C154	87-010-401-080		CAP, ELECT 1-50V	C306	87-010-183-080		C-CAP,S 2700P-50 B
C201	87-010-401-080		CAP, ELECT 1-50V	C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C202	87-010-316-080		C-CAP,S 33P-50 CH	C308	87-010-196-080		CHIP CAPACITOR,0.1-25
C203	87-010-196-080		CHIP CAPACITOR,0.1-25	C309	87-010-184-080		CHIP CAPACITOR 3300P(K)
C205	87-010-405-080		CAP, ELECT 10-50V	C310	87-010-183-080		C-CAP,S 2700P-50 B
C206	87-010-196-080		CHIP CAPACITOR,0.1-25	C311	87-012-393-080		C-CAP,S 0.22-16 R K
C208	87-A10-369-080		C-CAP,S 0.47-16 K B	C312	87-010-374-080		CAP, ELECT 47-10V
C209	87-010-316-080		C-CAP,S 33P-50 CH	C313	87-010-196-080		CHIP CAPACITOR,0.1-25
C210	87-010-405-080		CAP, ELECT 10-50V	C315	87-010-404-080		CAP, ELECT 4.7-50V
C221	87-012-156-080		C-CAP,S 220P-50 CH	C316	87-010-404-080		CAP, ELECT 4.7-50V
C225	87-010-178-080		CHIP CAP 1000P	C317	87-010-183-080		C-CAP,S 2700P-50 B
C226	87-010-405-080		CAP, ELECT 10-50V	C318	87-010-183-080		C-CAP,S 2700P-50 B
C227	87-012-156-080		C-CAP,S 220P-50 CH	C319	87-010-545-080		CAP, ELECT 0.22-50V
C228	87-010-178-080		CHIP CAP 1000P	C320	87-010-196-080		CHIP CAPACITOR,0.1-25
C229	87-010-405-080		CAP, ELECT 10-50V	CN101	87-099-563-010		CONN,20P TUC-P20X-B1
C231	87-012-156-080		C-CAP,S 220P-50 CH	CN102	87-A60-190-010		CONN,16P H TUC-P16X-B1
C232	87-010-405-080		CAP, ELECT 10-50V	FB101	87-008-372-080		FILTER, EMI BL OIRNI
C233	87-010-196-080		CHIP CAPACITOR,0.1-25	FB102	87-008-372-080		FILTER, EMI BL OIRNI
				FB103	87-008-372-080		FILTER, EMI BL OIRNI
				FB105	87-008-372-080		FILTER, EMI BL OIRNI

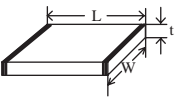
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
FB106	87-008-474-080		F-BEAD,EMI BL02RN1	C789	87-010-260-080		CAP, ELECT 47-25V
FB107	87-008-474-080		F-BEAD,EMI BL02RN1	C790	87-010-260-080		CAP, ELECT 47-25V
J101	87-A60-573-010		JACK,PIN 1P ORN	C791	87-010-405-080		CAP, ELECT 10-50V
L101	87-005-274-080		COIL,68UH K LAL03	C792	87-010-405-080		CAP, ELECT 10-50V
L102	87-005-274-080		COIL,68UH K LAL03	C793	87-012-368-080		C-CAP,S 0.1-50 F
L103	87-005-274-080		COIL,68UH K LAL03	C794	87-012-368-080		C-CAP,S 0.1-50 F
L104	87-008-501-080		FLTR,DSS306-B101	C797	87-010-322-080		C-CAP,S 100P-50 CH
L105	87-008-501-080		FLTR,DSS306-B101	C798	87-010-322-080		C-CAP,S 100P-50 CH
L106	87-008-501-080		FLTR,DSS306-B101	C799	87-010-322-080		C-CAP,S 100P-50 CH
L108	87-005-274-080		COIL,68UH K LAL03	CN701	87-099-557-010		CONN,11P TUC-P11X-B1
L109	87-008-501-080		FLTR,DSS306-B101	R773	87-010-188-080		CAP,CHIP 6800P
L110	87-005-274-080		COIL,68UH K LAL03				
L111	87-005-274-080		COIL,68UH K LAL03				
L112	87-005-274-080		COIL,68UH K LAL03				
X101	87-A70-115-010		VIB,XTAL 12.288MHZ				
				OSD/KEY CON C.B			
X102	87-A70-186-080		C-VIB,XTAL OSC FCX0-3	C101	87-010-263-080		CAP, ELECT 100-10V
				C102	87-010-196-080		CHIP CAPACITOR,0.1-25
				C103	87-010-400-080		CAP, ELECT 0.47-50V
				C104	87-010-315-080		C-CAP,S 27P-50 CH
VIDEO C.B				C106	87-012-159-080		C-CAP,S 24P-50 CH
C101	87-018-131-080		CAP, CER 1000P-50V	C107	87-010-198-080		CAP, CHIP 0.022
C102	87-010-186-080		CAP,CHIP 4700P	C108	87-010-805-080		CAP, S 1-16
C501	87-018-209-080		CAP, CER 0.1-50V	C110	87-010-401-080		CAP, ELECT 1-50V
C502	87-018-209-080		CAP, CER 0.1-50V	C111	87-010-545-080		CAP, ELECT 0.22-50V
C503	87-010-188-080		CAP,CHIP 6800P	C113	87-010-196-080		CHIP CAPACITOR,0.1-25
C504	87-010-188-080		CAP,CHIP 6800P	C114	87-016-079-040		CAP,E 100-6.3 MJ
C507	87-018-209-080		CAP, CER 0.1-50V	C115	87-010-149-080		C-CAP,S 5P-50 CH
CN401	87-099-758-010		CONN,17P H 9604	C116	87-010-149-080		C-CAP,S 5P-50 CH
FB501	87-008-372-080		FILTER, EMI BL OIRNI	C117	87-012-150-080		C-CAP,S 20P-50 CH
FB602	87-008-372-080		FILTER, EMI BL OIRNI	C118	87-010-316-080		C-CAP,S 33P-50 CH
J501	87-A60-606-010		JACK,PIN 3P R/W/Y W/O SW H	C119	87-010-401-080		CAP, ELECT 1-50V
J603	87-A60-550-010		JACK,DIA6.3 BLK ST W/SW KM	C121	87-010-401-080		CAP, ELECT 1-50V
LED401	87-A40-317-080		LED,SLR-342VCT31 RED	C122	87-010-322-080		C-CAP,S 100P-50 CH
S401	87-A90-095-080		SW,TACT EVQ11G04M	C125	87-012-154-080		C-CAP,S 150P-50 CH
S402	87-A90-095-080		SW,TACT EVQ11G04M	CN510	87-099-669-010		CONN,8P TUC-P8X-B1
S403	87-A90-095-080		SW,TACT EVQ11G04M	L101	87-A50-083-080		COIL,47UH (CECS)
SW401	87-A91-373-010		SW,RTRY EC16B1220408	L102	87-005-839-080		COIL,5.6UH G LF5.0S
				L103	87-A50-083-080		COIL,47UH (CECS)
GEQ C.B				L104	87-005-849-080		COIL,10UH(CECS)
				X101	80-JUL-676-080		VIB,XTAL 14.31MHZ
C758	87-010-404-080		CAP, ELECT 4.7-50V				
C759	87-012-368-080		C-CAP,S 0.1-50 F	PT C.B			
C761	87-010-198-080		CAP, CHIP 0.022				
C762	87-010-197-080		CAP, CHIP 0.01 DM				
C764	87-010-185-080		C-CAP,S 3900P-50 B				
C765	87-010-194-080		CAP, CHIP 0.047				
C766	87-010-181-080		CAP,CHIP S 1800P				
C767	87-010-198-080		CAP, CHIP 0.022				
C768	87-010-994-080		C-CAP,S 680P-50 CH				
C769	87-010-188-080		CAP,CHIP 6800P				
C770	87-012-145-080		CAP, CHIP S 270P CH				
C771	87-010-183-080		C-CAP,S 2700P-50 B				
C772	87-012-145-080		CAP, CHIP S 270P CH				
C773	87-010-188-080		CAP,CHIP 6800P				
C774	87-010-994-080		C-CAP,S 680P-50 CH				
C775	87-010-198-080		CAP, CHIP 0.022				
C776	87-010-181-080		CAP,CHIP S 1800P				
C777	87-010-194-080		CAP, CHIP 0.047				
C778	87-010-185-080		C-CAP,S 3900P-50 B				
C780	87-010-197-080		CAP, CHIP 0.01 DM				
C782	87-010-183-080		C-CAP,S 2700P-50 B				
C783	87-010-198-080		CAP, CHIP 0.022				
C786	87-010-402-080		CAP, ELECT 2.2-50V				
C787	87-010-402-080		CAP, ELECT 2.2-50V				
C788	87-010-260-080		CAP, ELECT 47-25V				

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

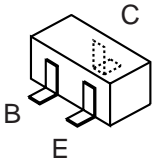
○チップ抵抗部品コード／CHIP RESISTOR PART CODE



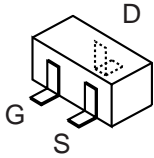
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



2SA1037	DTA144WK
2SA1235	DTC124EK
2SC2714	RN1410
2SC3052	RT1N141C
2SD1306	RT1N144C
CMBT5401	RT1P141C
CMBT5551	RT1P144C
CSA1362	



2SK2158
2SK2937



E C B

2SA1296
CC5551
CSD1489
DTC114ES
KTA1266GR
KTA1267GR
KTC3198GR



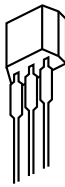
BCE

DTA114YS



BCE

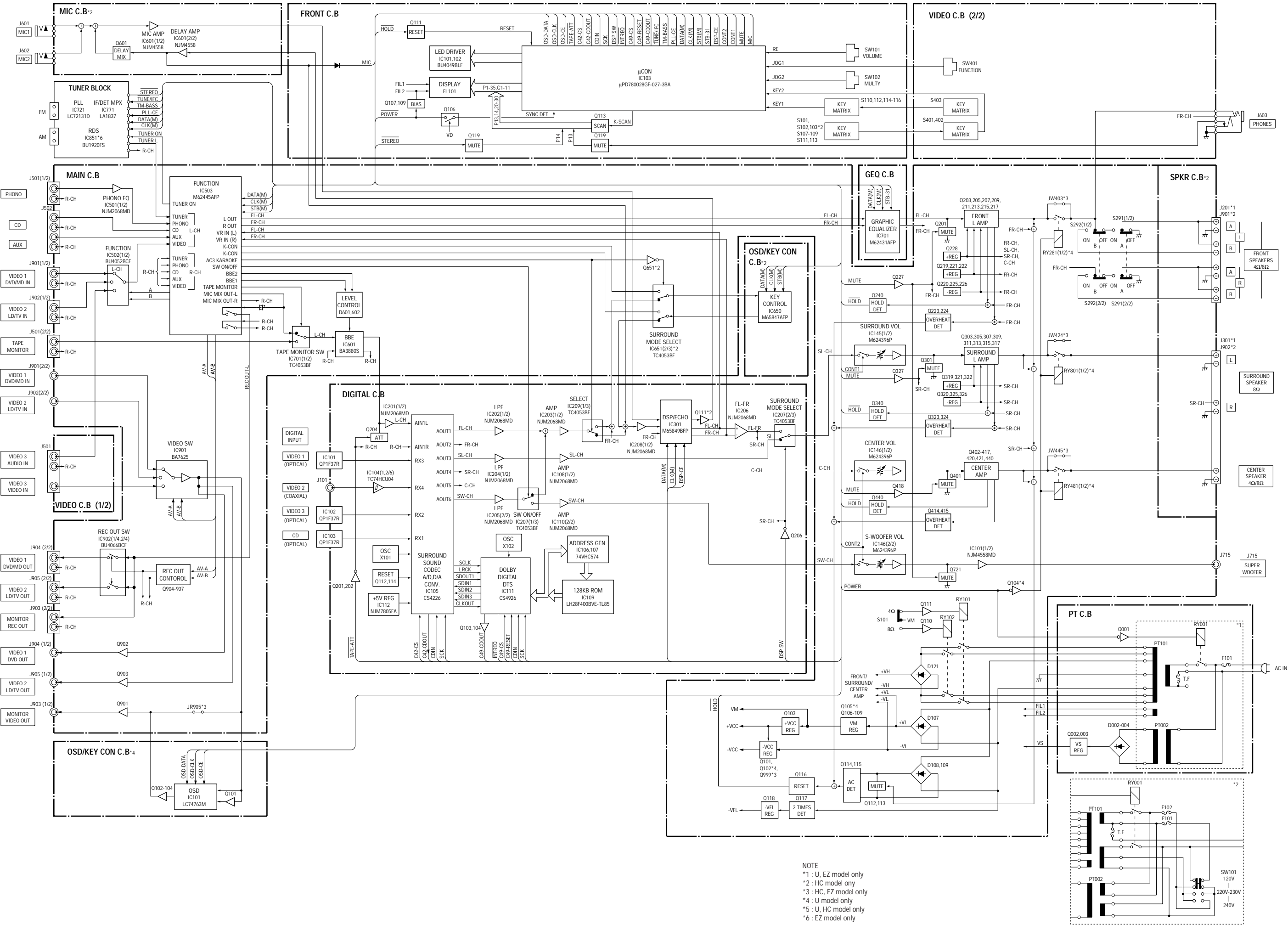
2SB1370
2SB1375
FN 1016
FP 1016
KTC3199GR



E C B

2SC4115

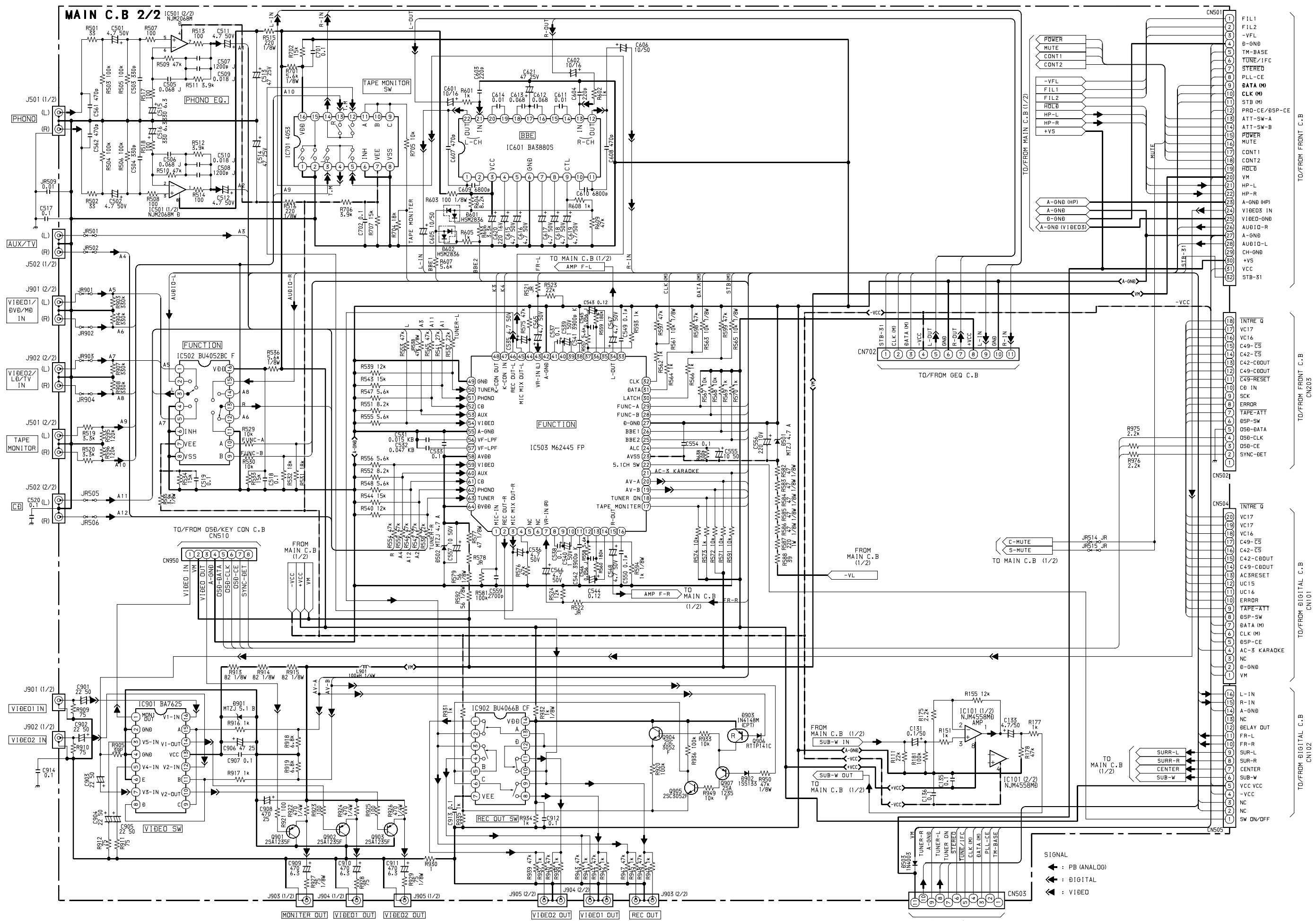
BLOCK DIAGRAM



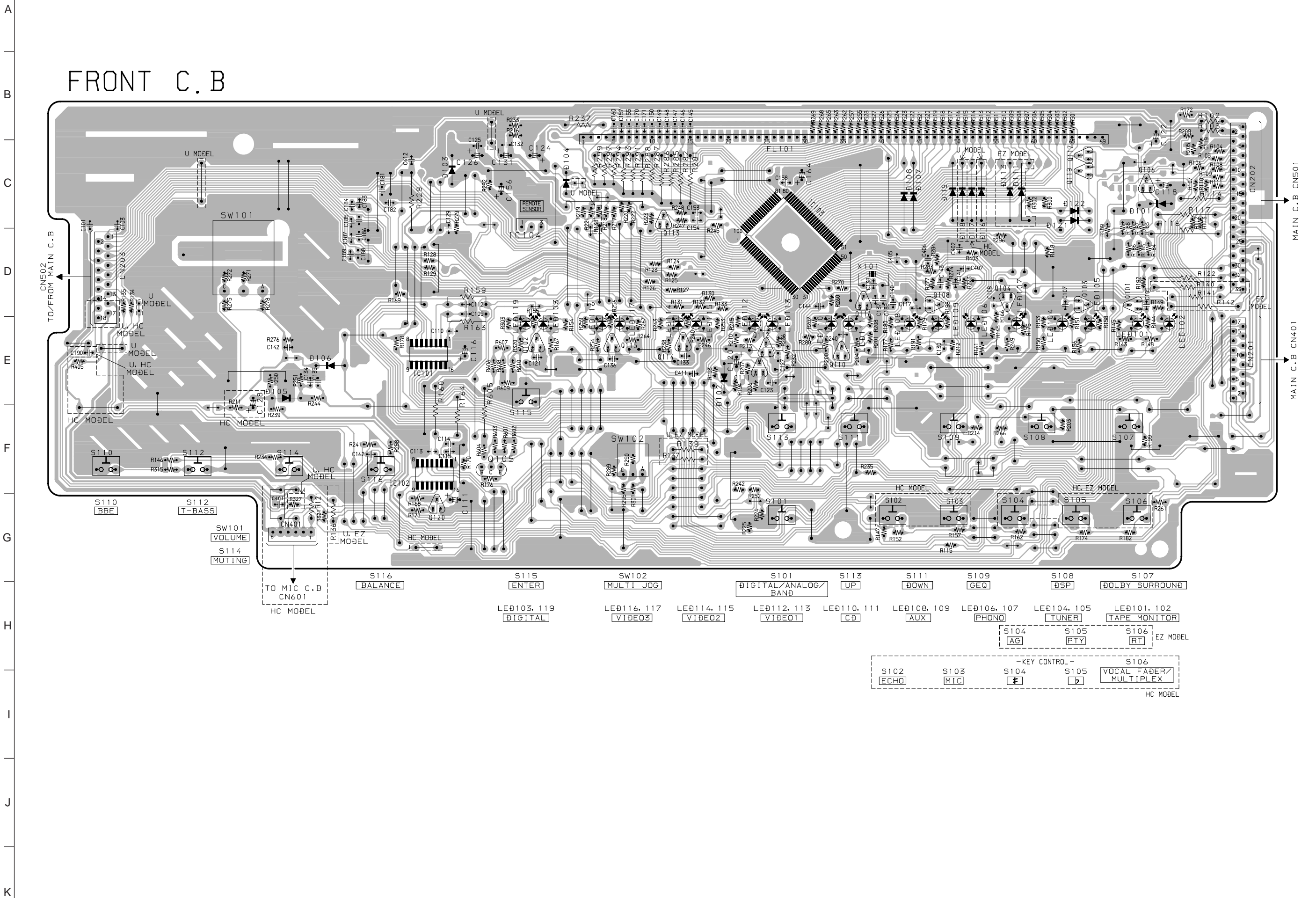


18

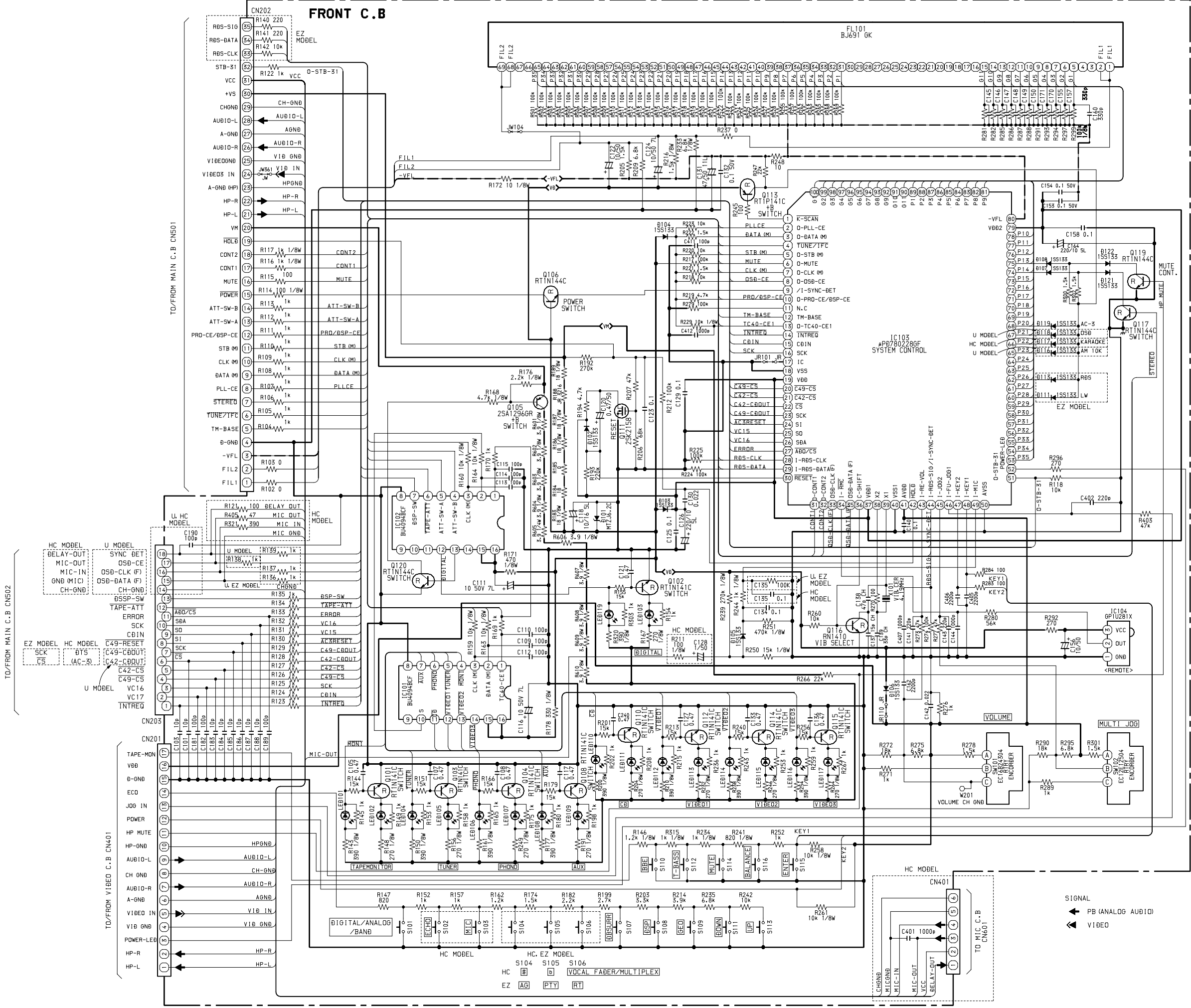
SCHEMATIC DIAGRAM-3 (MAIN 2/2)

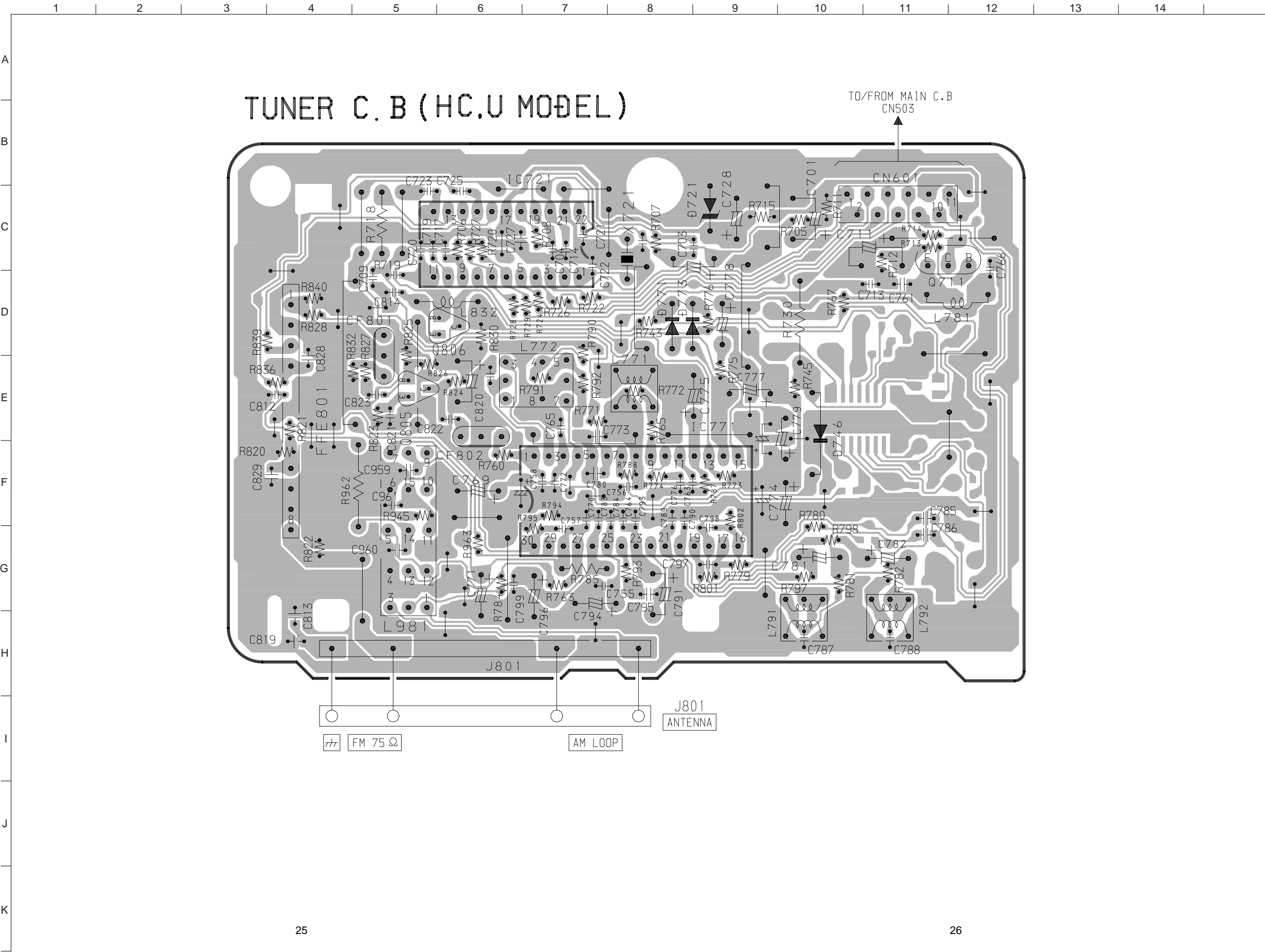


1	2	3	4	5	6	7	8	9	10	11	12	13	14
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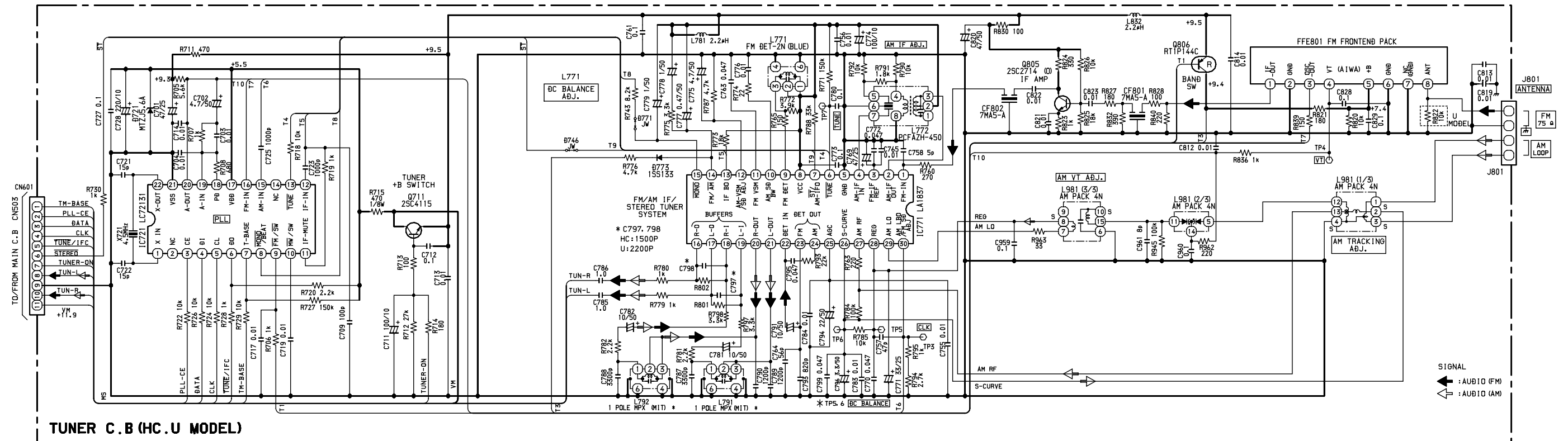


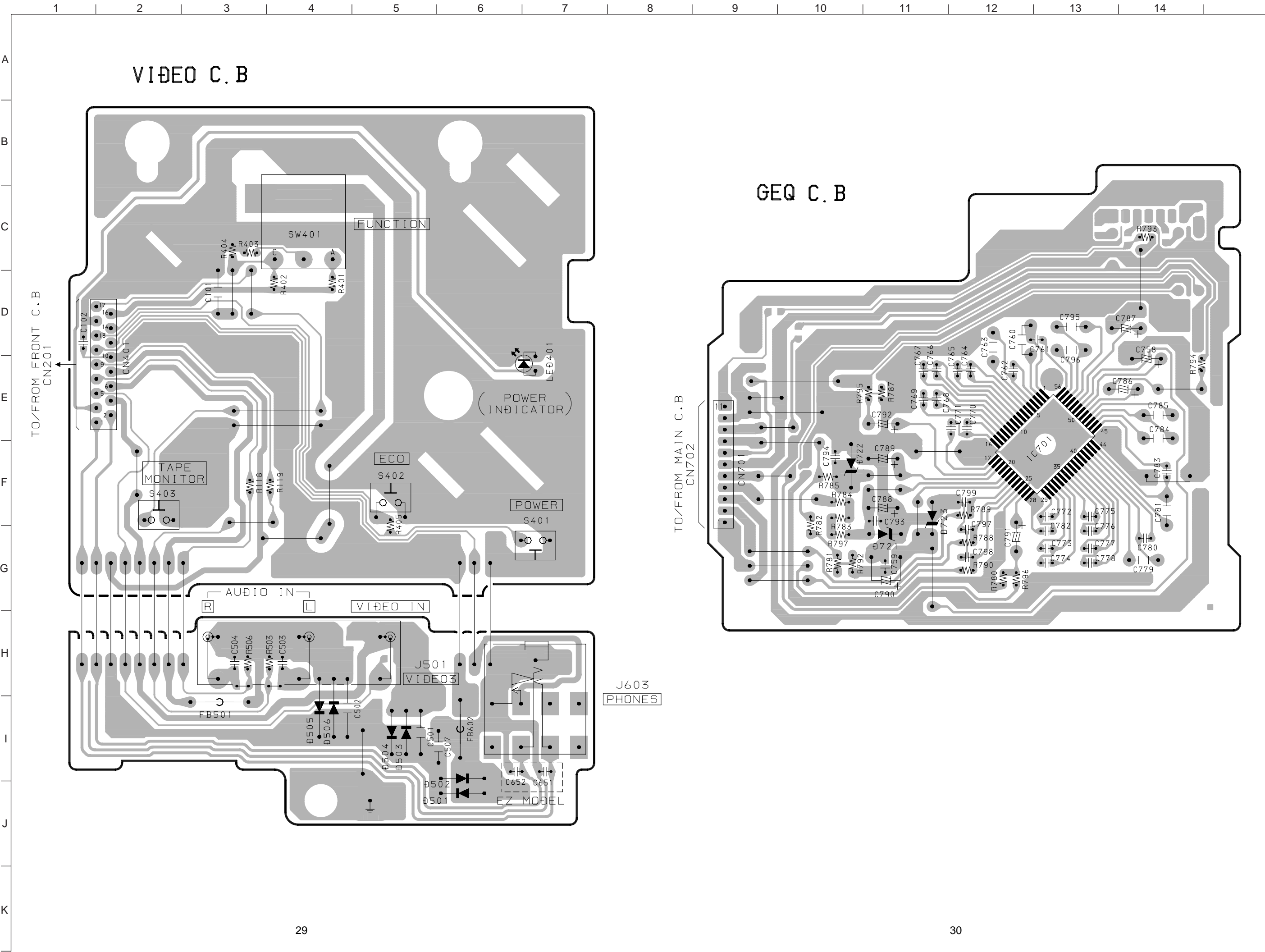
SCHEMATIC DIAGRAM-4 (FRONT)

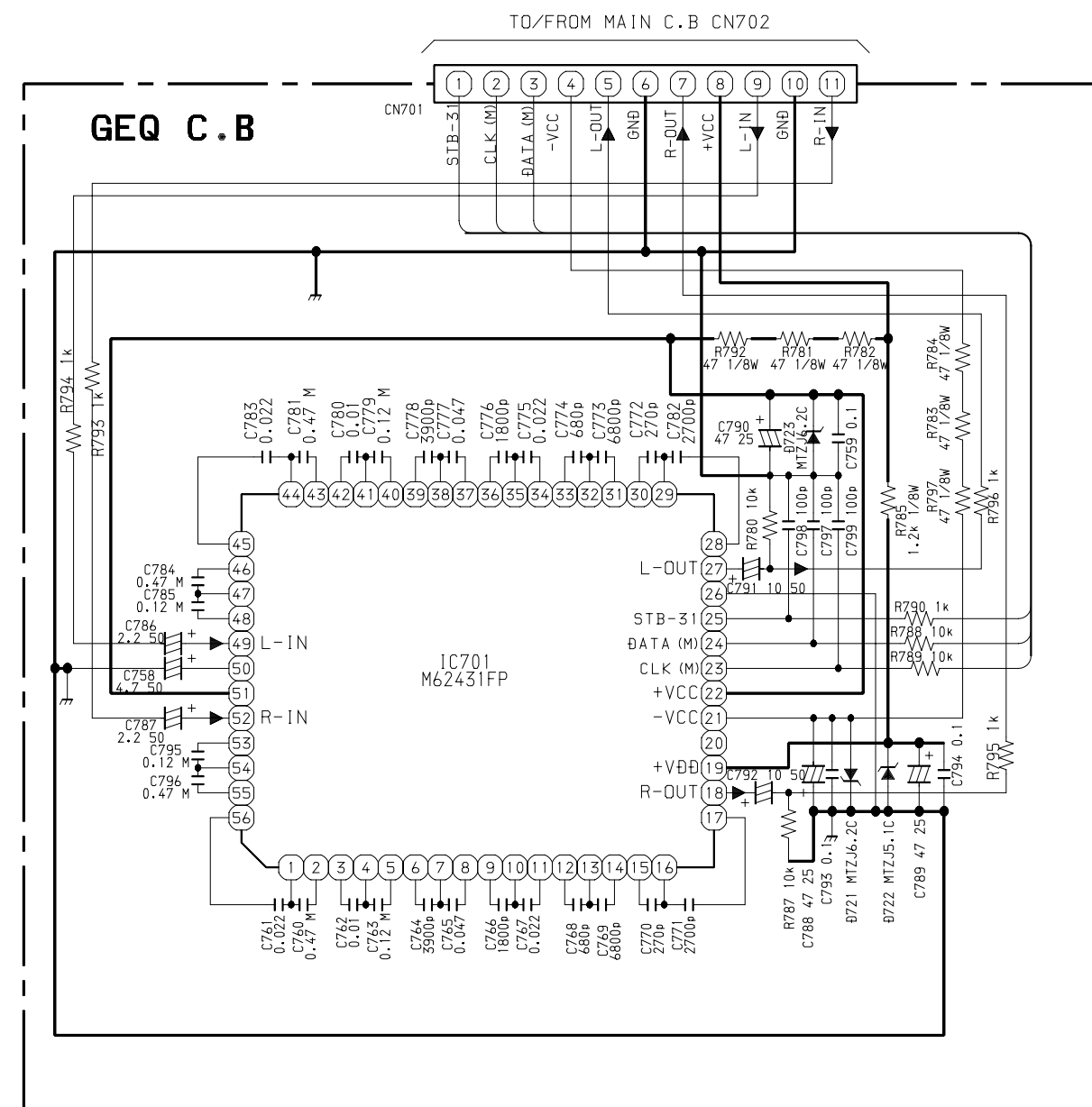
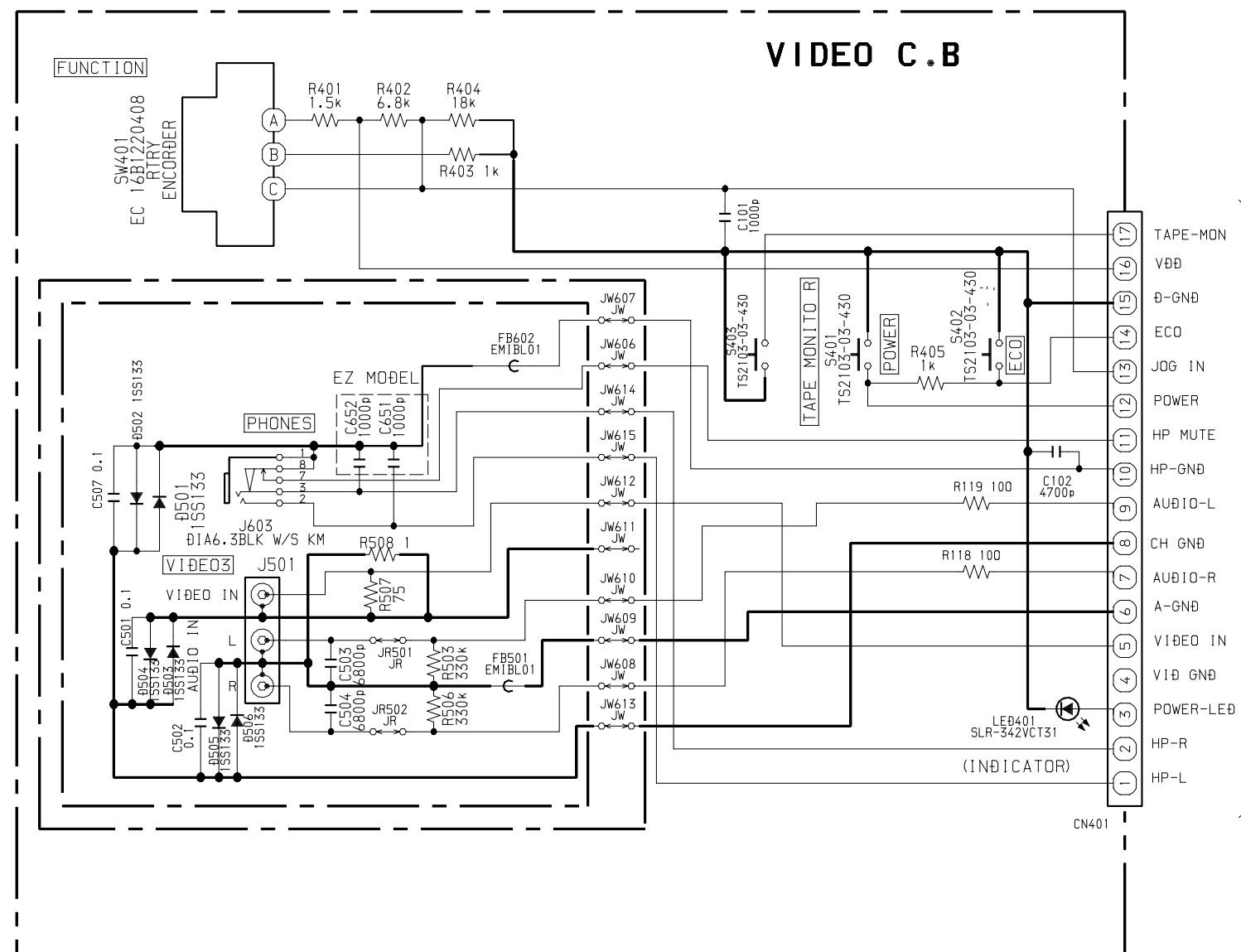




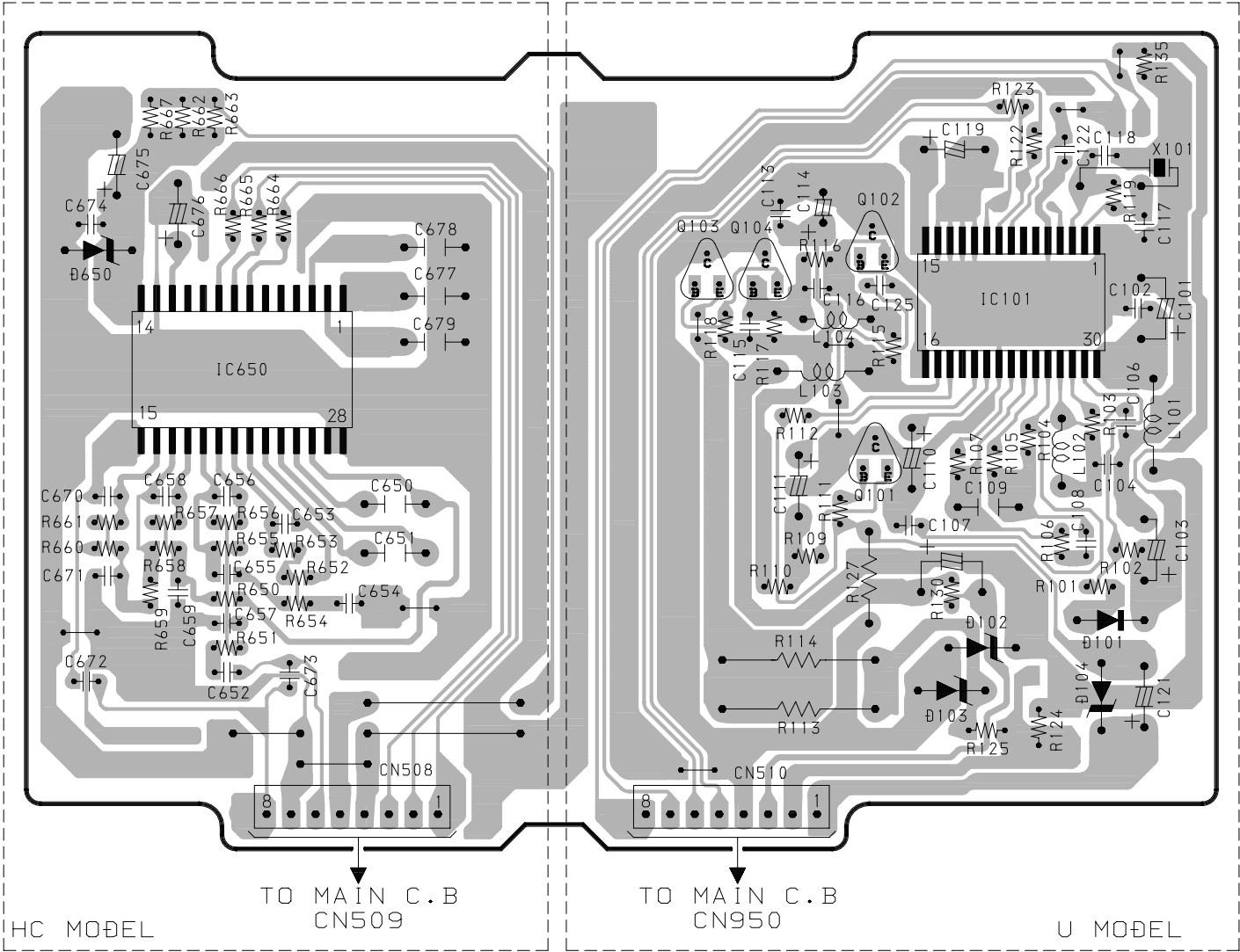
SCHEMATIC DIAGRAM-5 (TUNER)



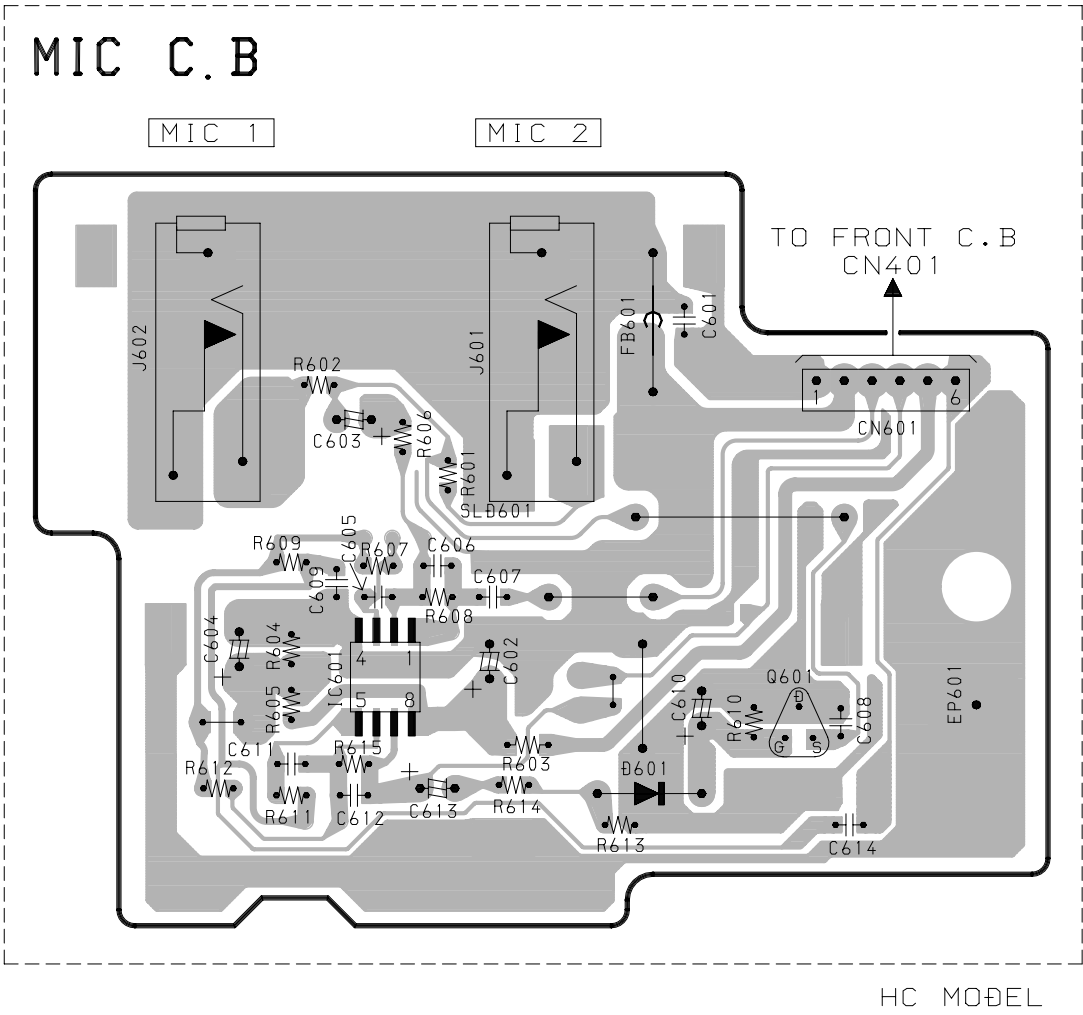


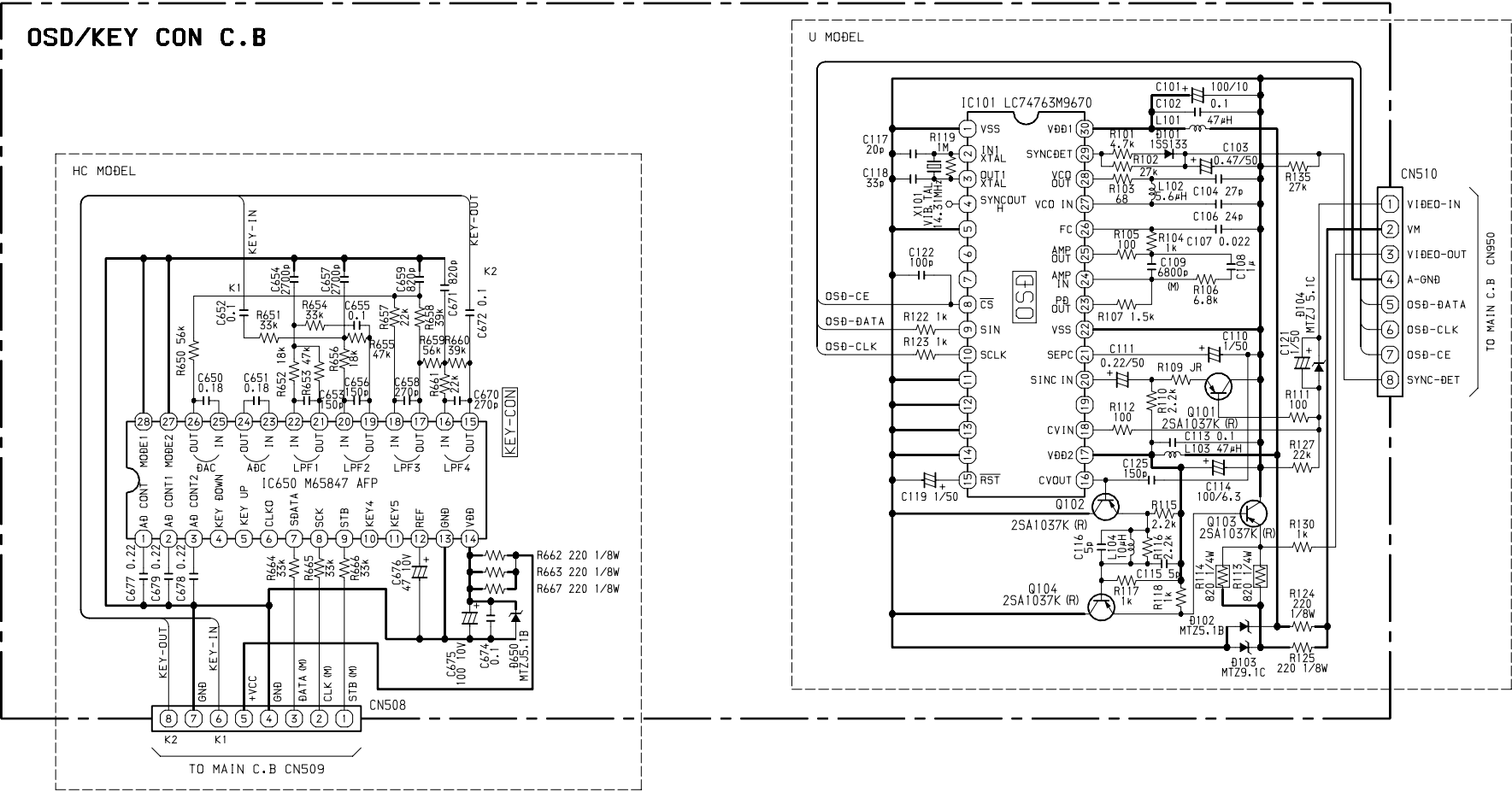
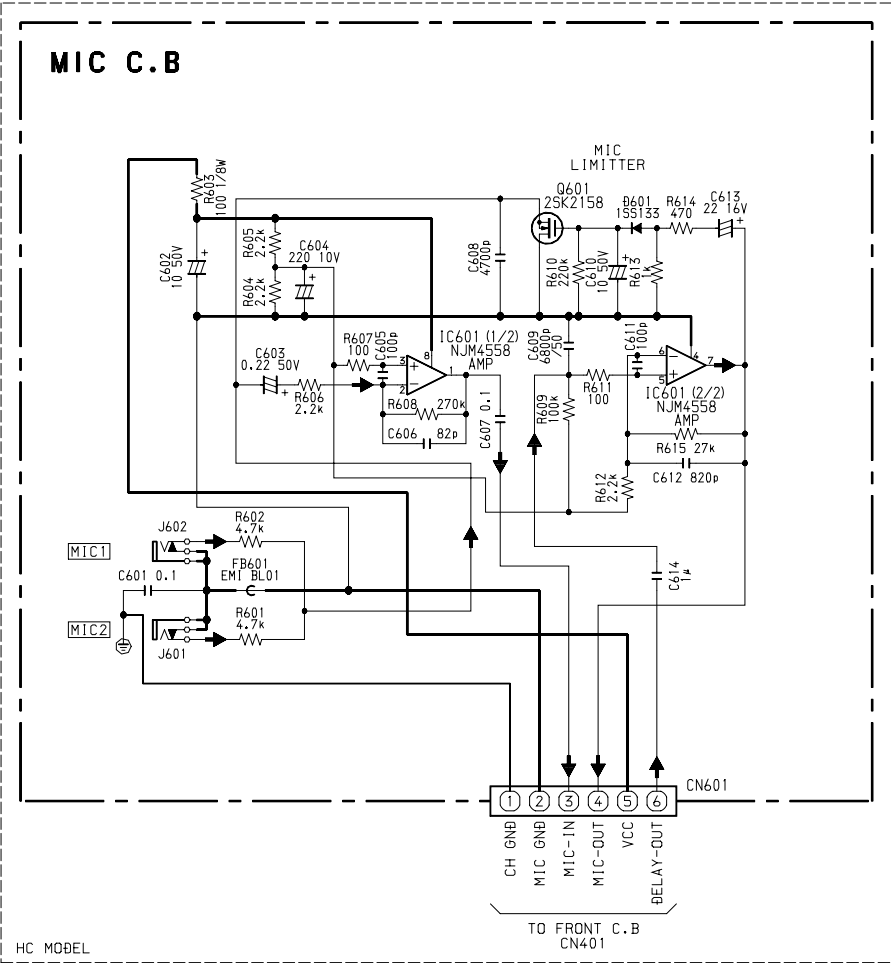


OSD/KEY CON C.B

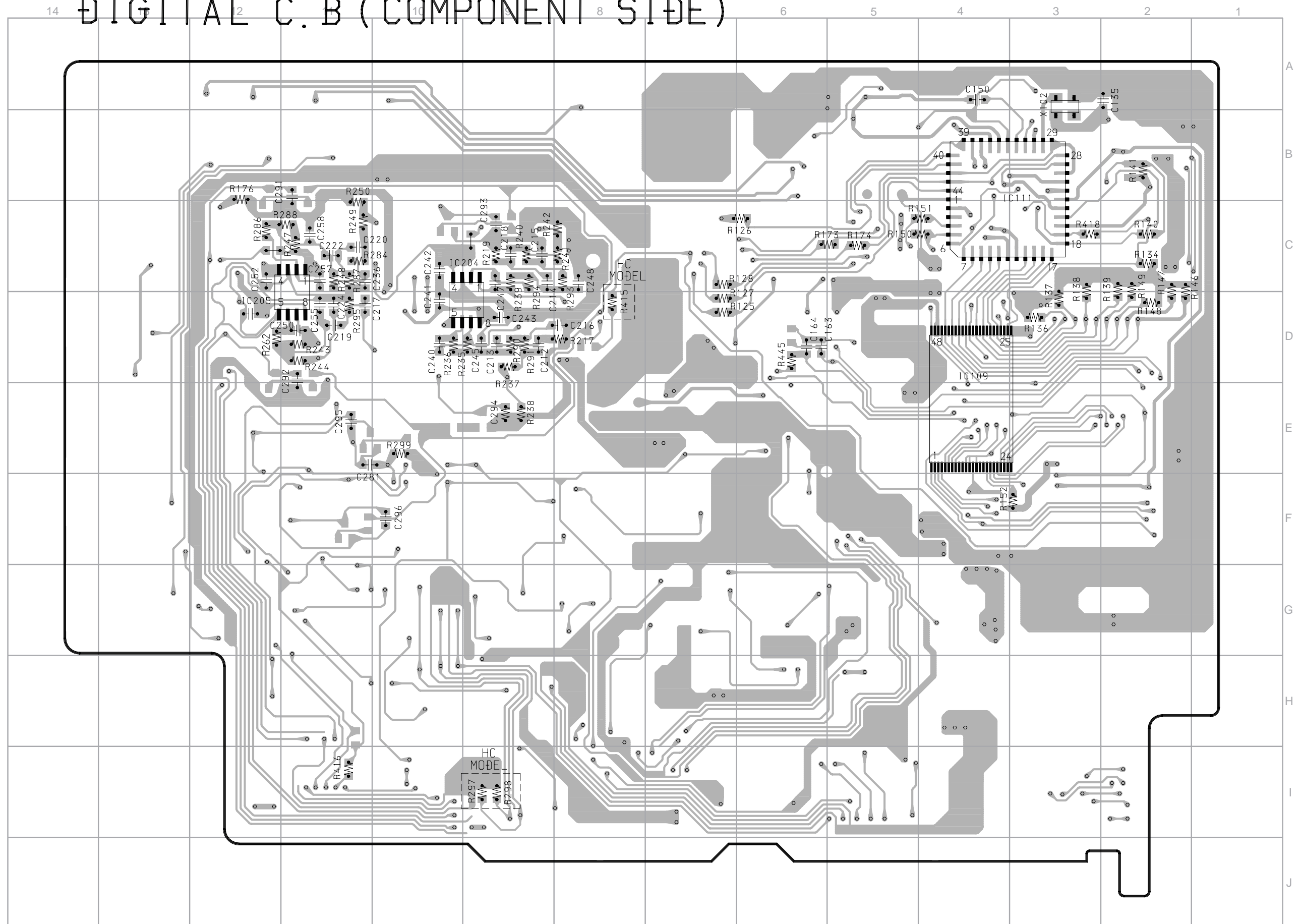


MIC C.B

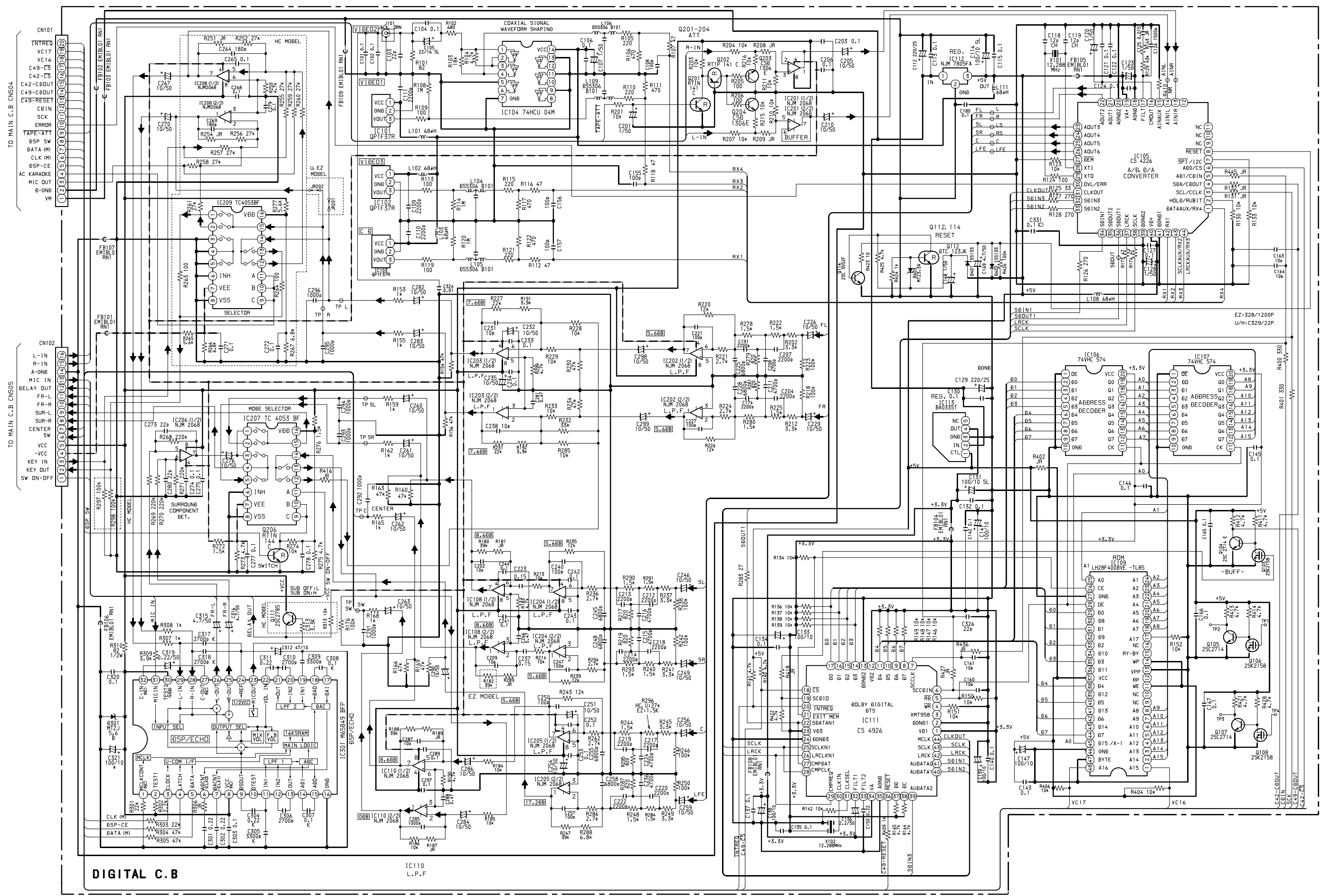


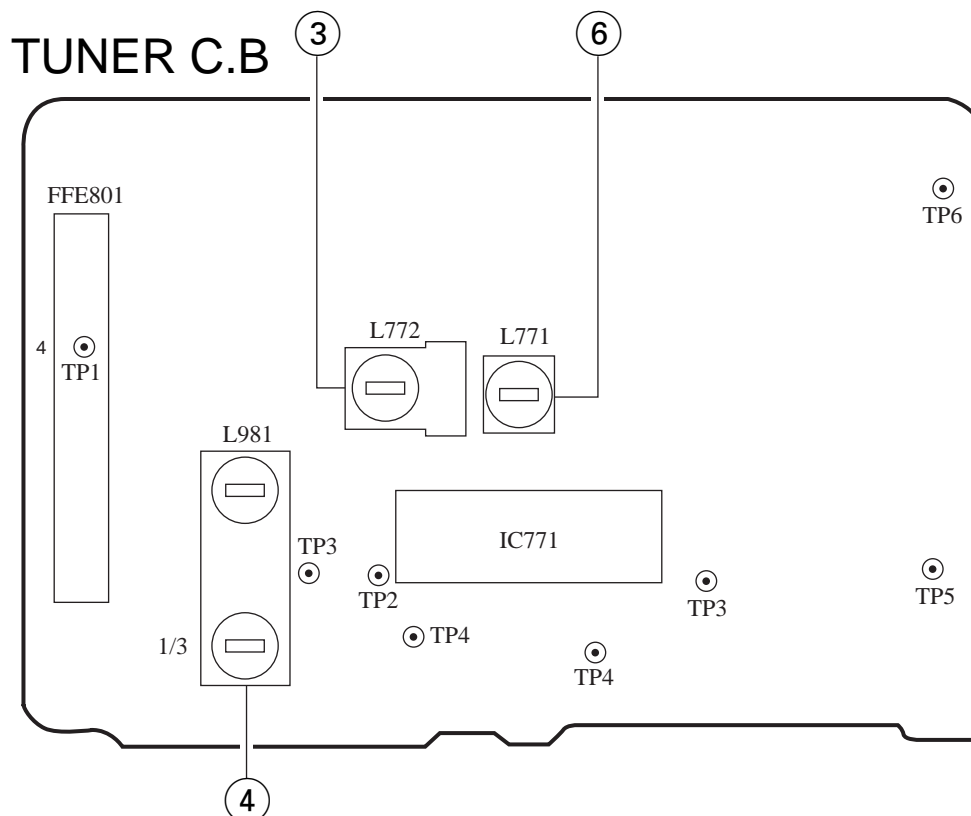


DIGITAL C.B (COMPONENT SIDE)



SCHEMATIC DIAGRAM-8 (DIGITAL)





< TUNER SECTION >

1. Clock Frequency Check
 - Settings: • Test point: TP2 (CLK IC770 pin30)
 - Method: Set to AM 1602kHz and check that the test point becomes 2052kHz±45Hz.
2. AM VT Check
 - Settings: • Test point: TP1 (VT)
 - Method: Set to AM 1710kHz and check that the test point is less than 8.5V.
Then set to AM 530kHz and check that the test point is more than 0.6V.
3. AM IF Adjustment
 - Settings: • Test point: TP5, TP6
L772 450kHz
4. AM Tracking Adjustment
 - Settings: • Test point: TP5, TP6
• Adjustment location: L981 (1/3)
 - Method: Set to AM 999kHz and adjust L981 so that the test point becomes maximum.
5. FM VT Check
 - Settings: • Test point: TP1 (VT)
 - Method: Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).
6. DC Balance/Mono Distortion Adjustment
 - Settings: • Test point: TP3, TP4
• Adjustment location: L771
• Input level: 60dB
 - Method: Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V±0.04V.
Next, check that the distortion is less than 1.3%.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

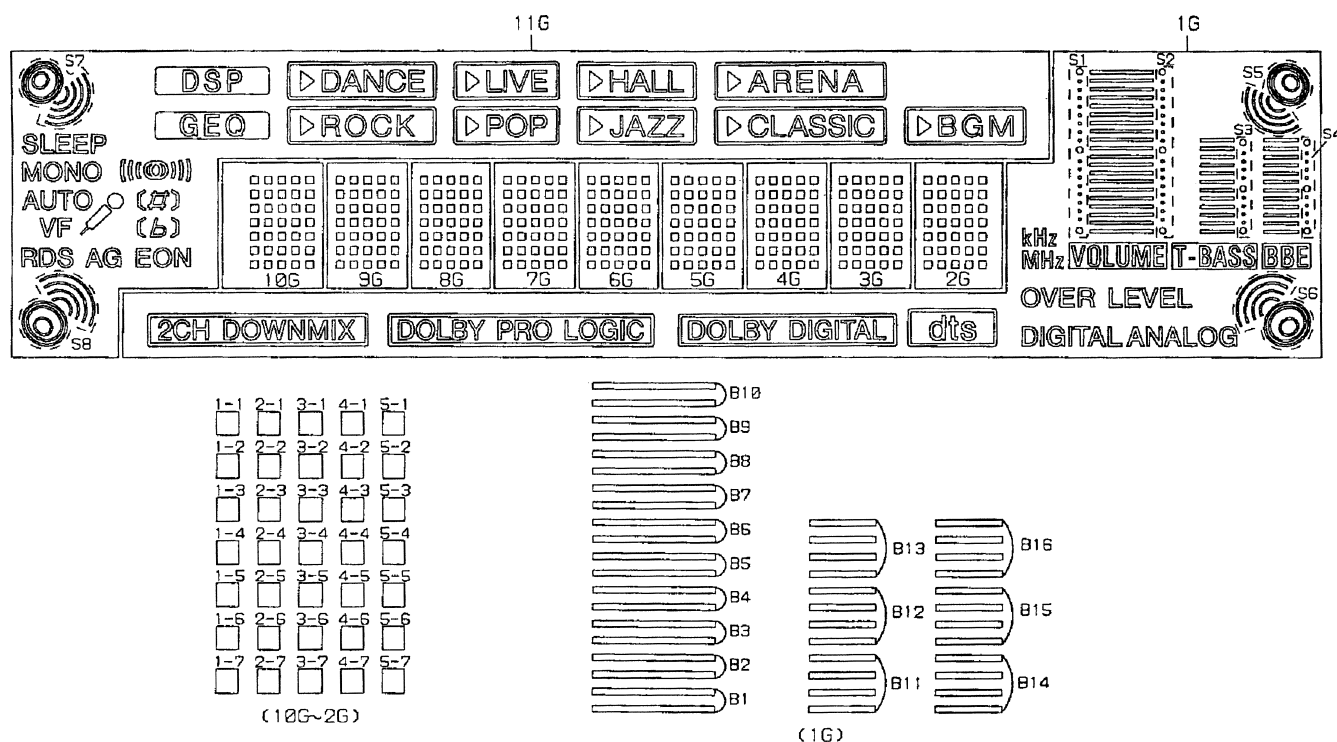
<FM SECTION>

Signal to noise ratio:	More than 62dB (at 98.0MHz)
Distortion:	Less than 2.0% (at 98.0MHz)
Stereo separation:	More than 22dB (at 98.0MHz)
Intermediate frequency:	10.7MHz

<AM SECTION>

Sensitivity:	Less than 60dB (at 600kHz)
(S/N 20dB)	Less than 58dB (at 1000/1400kHz)
Signal to noise ratio:	More than 36dB (at 1000kHz)
Distortion:	Less than 1.5% (at 1000kHz)
Intermediate frequency:	450kHz

GRID ASSIGNMENT



ANODE CONNECTION

[illegible]

IC, BU4094BCF

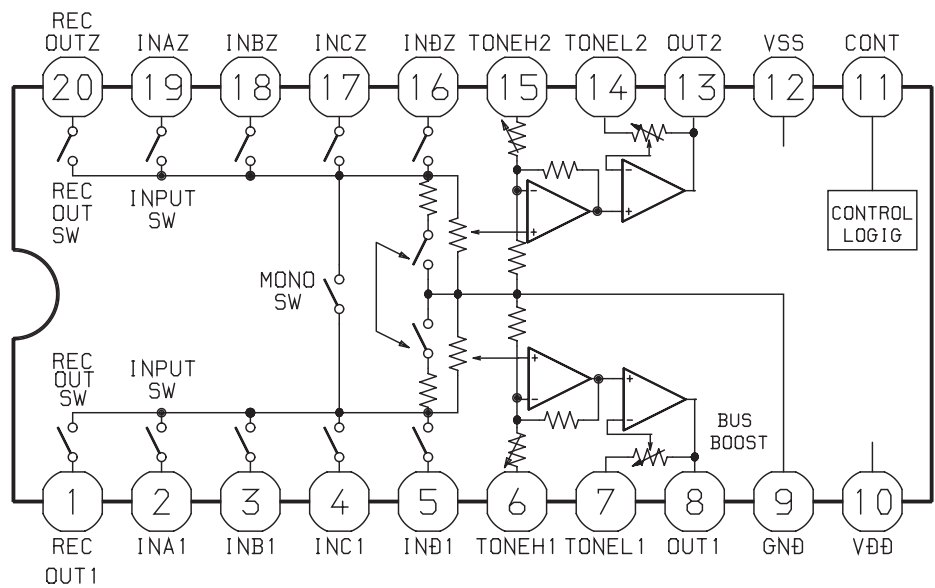


Z=High Impedance

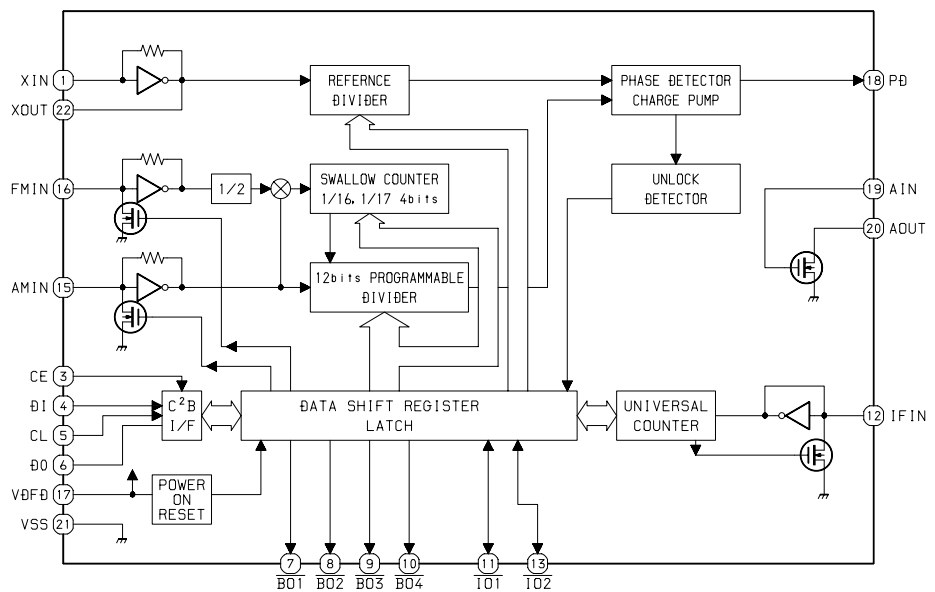
X=Don't Care

[illegible]

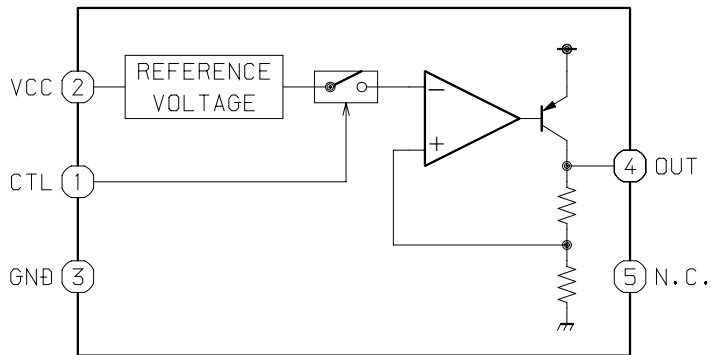
IC, M62439SP



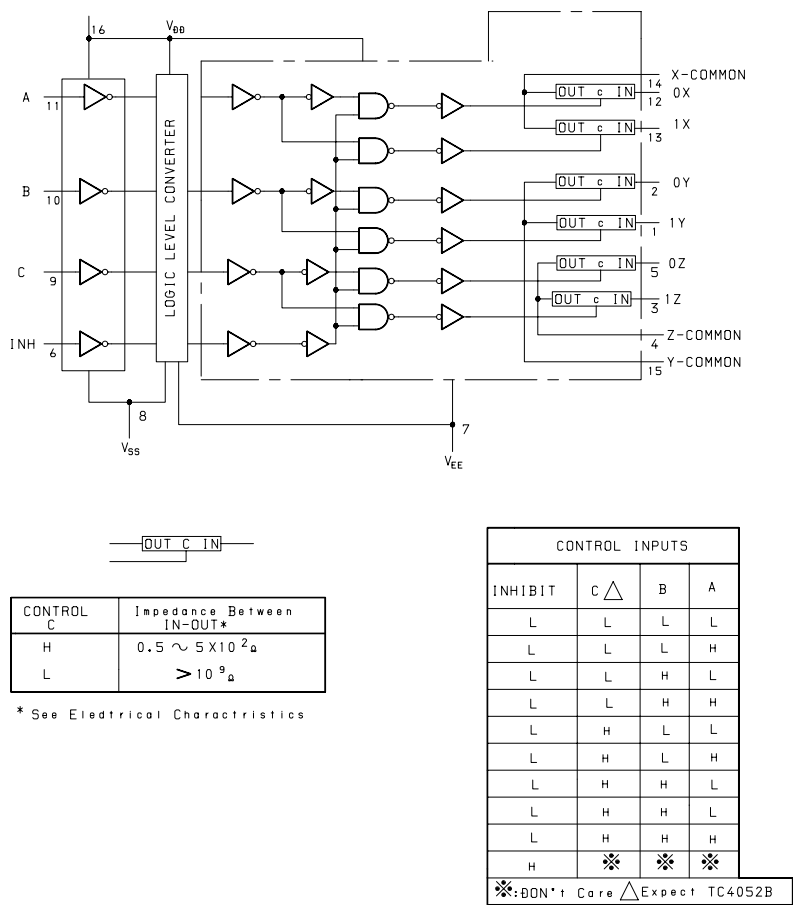
IC, LC72131D



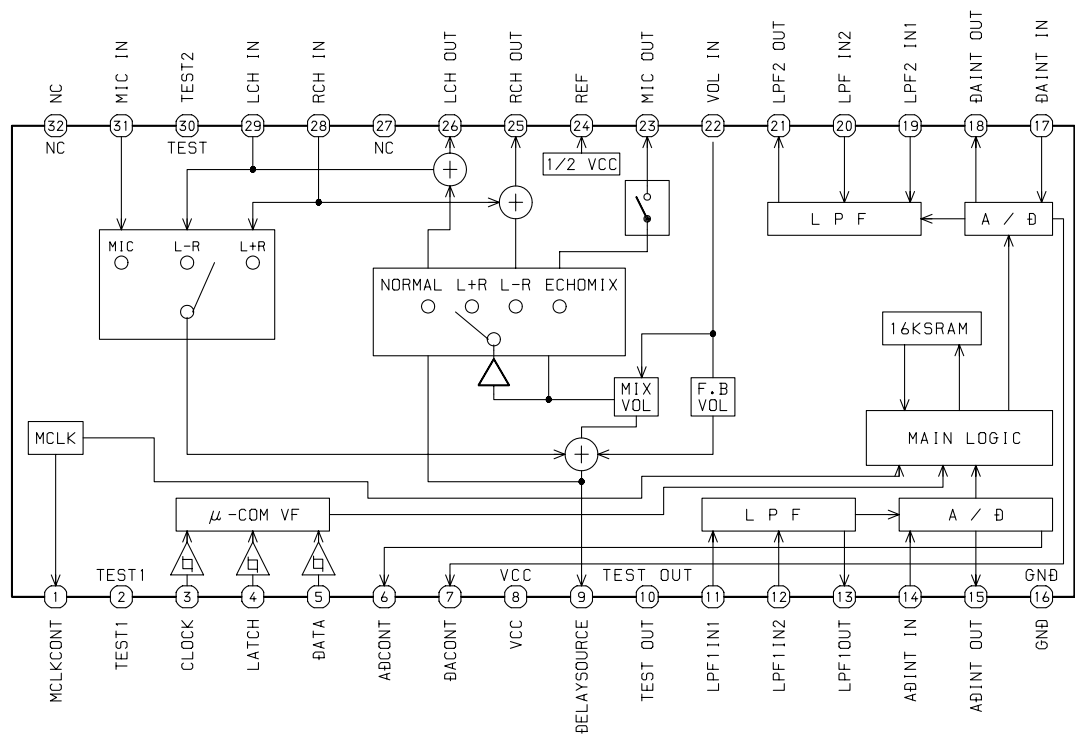
IC, BA033ST



IC, TC4053BF



IC, M65849BFP631D

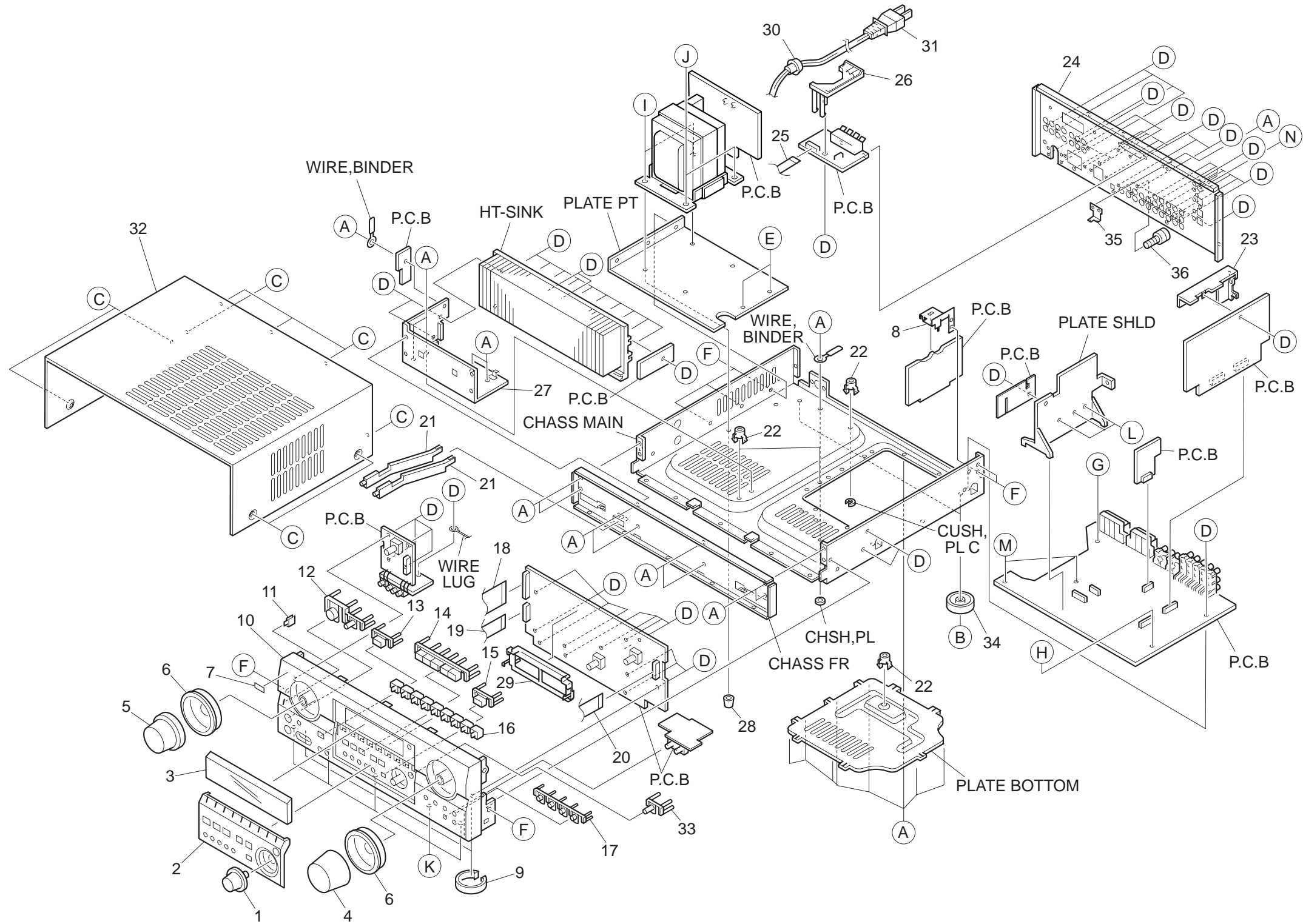


IC DESCRIPTION

IC, UPD780228GF

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{K-SCAN}}$	O	Scan output to diode input (Active “L”).
2	O-PLL-CE	O	Tuner PLL chip enable output.
3	O-DATA (M)	O	Sound CTRL, PLL, DOLBY PROLOGIC or DSP, AC-3 VOL, GEQ. Data output.
4	TUNE/IFC	I	Tuner $\overline{\text{TUNE/IFC}}$ detection input.
5	O-STB (M)	O	Sound CTRL, KEYCON strobe output.
6	O-MUTE	O	System mute ON/ $\overline{\text{OFF}}$ output.
7	O-CLK (M)	O	Sound CTRL, PLL, DOLBY PROLOGIC or DSP, AC-3 VOL, GEQ. Clock output.
8	O-OSD (CE)	O	OSD chip enable output.
9	/I-SYNC-DET	O	System power supply. $\overline{\text{ON/OFF}}$ output.
10	O-PRO-CE/O-DSP-CE	O	DOLBY PROLOGIC or DSP chip enable output.
11	—	—	Not used.
12	TM-BASE	I	Reference clock input for watch.
13	—	O	IC101. Strobe output from shift register (1).
14-16	—	—	Not used.
17	IC	—	GND.
18	VSS	—	GND.
19	VDD	—	Power supply pin.
20, 21	—	—	Not used.
22	$\overline{\text{CS}}$	O	DOLBY digital (AC-3) control. CS output.
23	SCK	O	DOLBY digital (AC-3) control. Clock output.
24	SI	O	DOLBY digital (AC-3) control. Data output.
25	SO	I	DOLBY digital (AC-3) control. Data input.
26	SDA	I	CODEC IC (CS4226) control. Data output.
27	$\overline{\text{ADO/CS}}$	O	CODEC IC (CS4226) control. $\overline{\text{CS}}$ output.
28	I-RDS-CLK	I	RDS clock input (external interrupt).
29	I-RDS-DATA	I	RDS data input.
30	$\overline{\text{RESET}}$	—	Reset.
31	O-CONT.1	O	Master VOL control output for SL/SR.
32	O-CONT.2	O	Master VOL control output for center/SUB-woofer (TRIM control output for center/SUB-woofer).
33	OSD-CLK	O	OSD clock output.
34	$\overline{\text{I-RMC}}$	I	Remote control input.
35	OSD-DATA	O	OSD data output.
36	C-SHIFT	O	Microprocessor clock shift output (Active “H”).
37	VDD1	—	Power supply pin.
38	X1	—	Connected to 5.76MHz oscillator.
39	X2	—	Connected to 5.76MHz oscillator.
40	VSS1	—	GND.
41	AVDD	—	Power supply pin.
42	$\overline{\text{HOLD}}$	I	System power supply voltage monitoring. AD input.
43	I-RE-VOL	I	Rotary encoder (VOL). AD input.

Pin No.	Pin Name	I/O	Description
44	I-SYNC-DET/I-RDS-SIG	I	OSD sync. AD input. RDS tuning signal level. AD input.
45	I-JOG2	I	Rotary encoder (JOG2). AD input.
46	I-FU-JOG1	I	Function selector rotary encoder (JOG1). AD input.
47, 48	I-KEY2, I-KEY1	I	Key 2, 1. AD input.
49	I-MIC	I	Microphone signal level detector. AD input.
50	AVSS	—	ADND.
51	O-STB-31	O	GEQ IC chip enable output.
52	POWER-LED	O	Power LED ON/ $\overline{\text{OFF}}$ output (Active “H”).
53-64	P35-P24	O	FL segment output (P35-P24).
65	P23/I-AM10K	O	FL segment output (P23)/supporting AM step initialization 10 kHz.
66, 67	P22/I-VF.KC.EC	I/O	FL segment output (P22, P21)/supporting VF, key control, ECHO. Diode input.
68	P20/I-AC3	I/O	FL segment output (P20)/supporting AC-3. Diode input.
69-73	P19-O-P15	O	FL segment output (P19-P15).
74	P14/ $\overline{\text{I-STEREO}}$	I/O	FL segment output (P14). Turner/stereo detection input (stereo at “L”).
75	P13/ $\overline{\text{I-HPMUTE}}$	I/O	FL segment output (P13). Headphones insertion detection input (HP insertion at “L”).
76-78	P12-P10	O	FL segment output (P12-P10).
79	VDD2	—	Power supply pin.
80	-VFL	—	– Voltage.
81-89	P9-P1	O	FL segment output (P9-P1).
90-100	G11-G1	O	FL grid output (G11-G1).



MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-AR1-013-010		KNOB,RTRY JOG	26	88-AR1-203-010		HLDR,TU
2	8Z-AR1-002-010		PANEL,FR	27	8Z-AR1-205-010		HLDR,HT-SINK
3	8Z-AR1-014-010		WINDOW,DISPLAY	28	8Z-NB8-240-010		COVER,PL
4	8Z-AR1-011-010		KNOB,RTRY VOL	29	88-NF6-205-010		GUIDE,FL 40-150- 9
5	8Z-AR1-012-010		KNOB,RTRY FUN	30	87-085-189-010		BUSHING, CORD (U)
6	8Z-AR1-017-010		RING,VOL	31	87-A80-110-010		AC CORD ASSY,U SPT-2W
7	82-NE6-067-010		BADGE,AIWA 30N	32	8Z-AR1-003-010		CABI,STEEL
8	88-AR2-205-110		HLDR,PWB OSD	33	8Z-AR1-007-010		KEY,ENTER
9	8Z-AR1-020-110		RING,FOOT SIL	34	8Z-AR1-021-110		FOOT,REAR
10	8Z-AR1-001-010		CABI,FR U	35	8Z-AR1-210-010		HLDR,PT PWB
11	8Z-AR1-016-010		REFLECTOR,ECO	36	87-033-209-010		TERMINAL, EARTH
12	8Z-AR1-004-010		KEY,POWER	A	87-067-584-010		TAPPING SCREW, BVT2+3-6
13	8Z-AR1-019-010		KEY,MONITOR	B	87-067-689-010		TAPPING SCREW, BVTT+3-8
14	8Z-AR1-005-010		KEY,GEQ	C	87-067-641-010		UTT2+3-8(W/O SLOT)BL
15	8Z-AR1-006-010		KEY,DIGITAL	D	87-067-703-010		TAPPING SCREW, BVT2+3-10
16	8Z-AR1-015-010		REFLECTOR,FUN	E	87-067-585-010		TAPPING SCREW, BVTT+4-6
17	8Z-AR1-018-010		KEY,BBE	F	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
18	8Z-AR1-603-010		FF-CABLE, 32P 1.25 400MM	G	87-067-632-010		TAPPING SCREW, BVT2+3-15
19	88-917-101-210		FF-CABLE, 17P 1.25	H	87-067-633-010		TAPPING SCREW, BVT2+3-8
20	8Z-AR1-606-010		FF-CABLE, 18P 1.25 340MM	I	87-078-191-010		S-SCREW,IT+4-10
21	8Z-AR1-010-010		BTN,SP	J	87-067-975-010		S-SCREW,IT+4-8
22	88-AR1-218-010		HLDR,PWB H8.9	K	87-067-761-010		TAPPING SCREW, BVT2+3-10
23	8Z-AR1-219-010		HLDR,PWB PRO	L	87-067-579-010		TAPPING SCREW, BVT2+3-8
24	8Z-AR1-025-010		PANEL,REAR UBNM	M	87-067-581-010		TAPPING SCREW, BVT2+3-15
25	88-911-161-110		FF-CABLE,11P 1.25	N	87-751-092-410		VT2+3-4 W/O SLOT

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		



サービス技術ニュース	
番号	連絡内容
Gー ー	
Gー ー	
Gー ー	

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